User's Guide

TRENDnet®

SecurView Pro

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Chapter 1
Network IP Cameras

What is a network (IP) camera?

Network camera, IP addressable camera, IP Camera, all referring to the same type of cameras, is a digital camera that can be directly connected to the Internet through a network cable or Wireless connection. Network cameras send already digitized and compressed video streams. Network Cameras are the fastest growing trend in the Surveillance industry. Here are some of the benefits of IP cameras:

- Existing local network infrastructure could be used for the installation.
- Comparably less cabling required compared with an analog CCTV installation.
- Network cameras have built-in motion detectors and compression engines, which enable the DVR Server to use a minimum of its computer resources; therefore, the same computer can also be used for other tasks.
- There are Network (IP) cameras with very high resolution (1.3 Mega pixels and more). Analog cameras are incapable of achieving such resolution.
- Network (IP) camera installations are highly scalable and upgradeable. There is no need to buy and install additional video capture boards for the DVR system in the event you want to add a camera or increase performance of the system.
- Any analog camera can be converted to a network camera by using a Network (IP) server.
- There is no geographical limitation for the installation.
- Effective off site recording (either by itself or in addition to onside recording) eliminates the possibility of destruction of the video medium due to deliberate actions or an accident (fire, flooding, etc.).
- Some of the network cameras also can be used as a webcam to serve as an advertising engine for a business.

MPEG4/H.264 IP cameras:

Without compromising image quality, an H.264 encoder can reduce the size of a digital video file by more than 75% compared with the Motion JPEG format. This means that much less network bandwidth and storage space are required for a video frame. A higher video quality can be achieved with less bit rate.

- Better Average Bandwidth and Storage Reduction over MJPEG
- High-quality megapixel video stream at 20fps can be as low as 2 Mbps
- High resolution and bandwidth efficiency

PTZ Cameras

What are PTZ Cameras?

PTZ camera is the camera with the mechanical assembly for Panning, Tilting and Zooming the camera. There are many types of PTZ cameras available and their cost varies based on Speed, Zoom capacity, Manufacturer, etc. Network PTZ cameras does not require any addition wiring or devices, since PTZ commands are being send over TCP/IP network; therefore, making installation process much simpler and eliminating a lot of compatibility and configuration issues.

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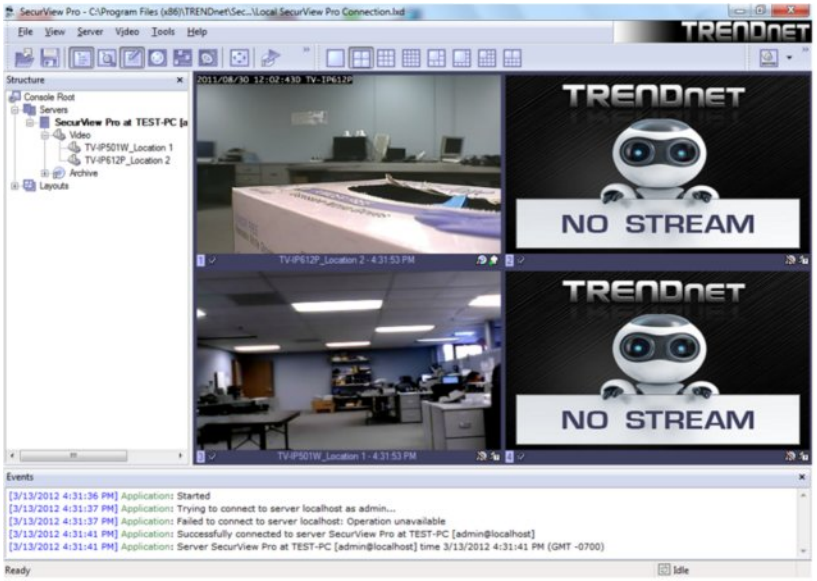
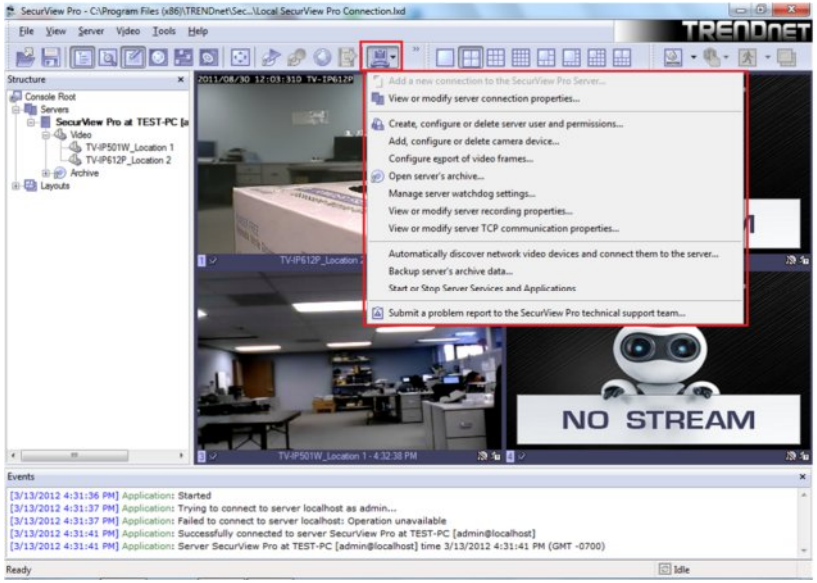
- Through the software, 32 cameras can be managed, configured, and adjusted, without the need to be at the server site.
- Right mouse click on any camera to show a list of various options like camera setup, recording settings, user management, and etc.
- Right mouse click on any camera to access archive playback, freeze function, digital PTZ, screen arrangement, video transfer options and more.



- Use the wizards for easy navigation and step-by-step setup.



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Chapter 2

SecurView Pro Installation

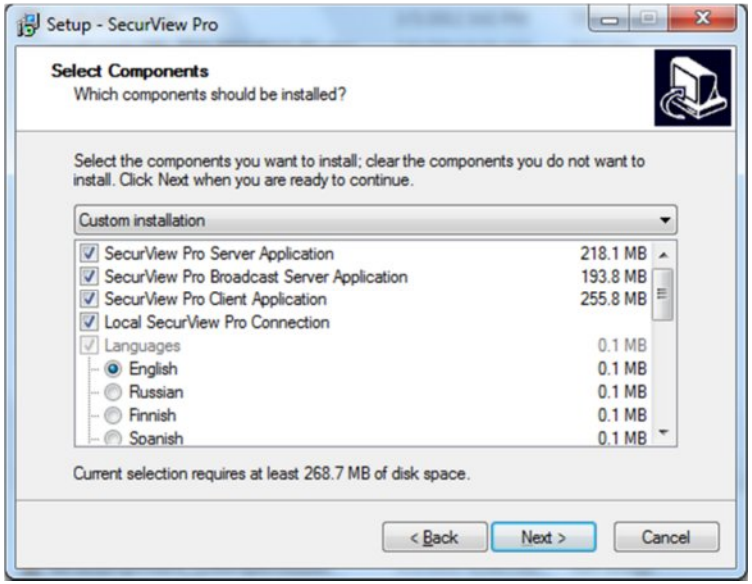
Begin the installation process by double clicking the SecurView Pro setup file.

1. "Welcome to the SecurView Pro Setup Wizard" window appears. Click **Next**.

2. Please read and accept the **Software License Agreement**. Then click **Next**.

3. Select the installation destinalation and then click **Next**. Changing the location is optional but not recommended.

4. The "Select Components" window appears. Select the desired options to install, choose the desired language and then click **Next**.

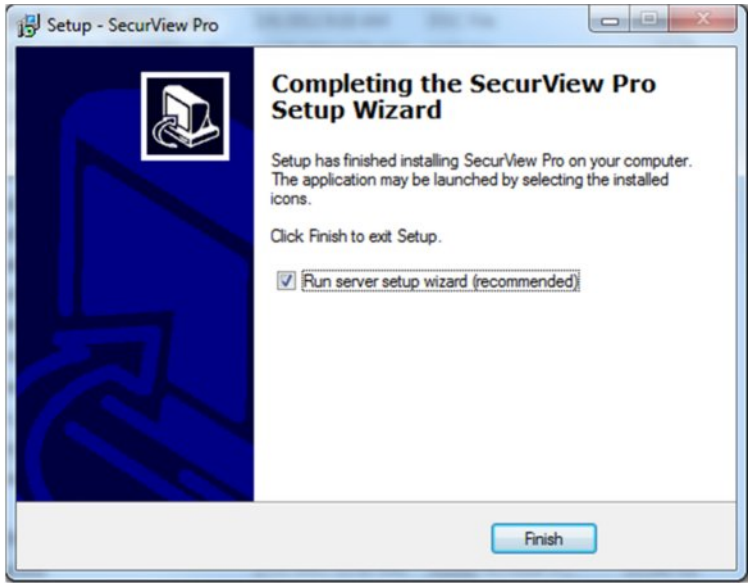

Setup - SecurView Pro
Select Components
Which components should be installed?
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.
Custom installation
SecurView Pro Server Application 218.1 MB
SecurView Pro Broadcast Server Application 193.8 MB
SecurView Pro Client Application 255.8 MB
Local SecurView Pro Connection
Languages 0.1 MB
English 0.1 MB
Russian 0.1 MB
Finnish 0.1 MB
Spanish 0.1 MB
Current selection requires at least 268.7 MB of disk space.
< Back
Next >
Cancel

5. "Select Start Menu Folder" window appears. Click **Next**. Changing the location is optional but not recommended.

6. "Additional Icons" window appears. Click **Next**. These are shortcuts and are recommended, but optional.

7."Ready to install" window appears. Click **Next**. SecurView Pro Server and options will now be installed.

8. To complete the installation of the SecurView Pro setup wizard, click **Finish**. Leave "Run server setup wizard" option checked.


Setup - SecurView Pro
Completing the SecurView Pro Setup Wizard
Setup has finished installing SecurView Pro on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Run server setup wizard (recommended)
Finish

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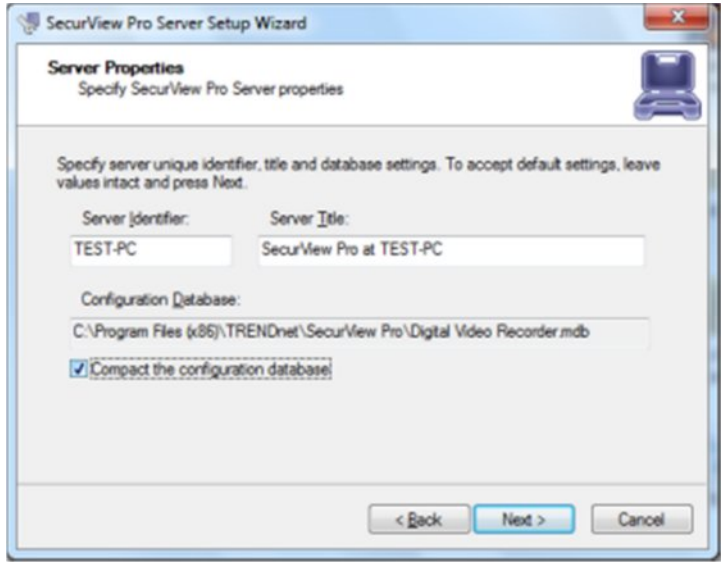
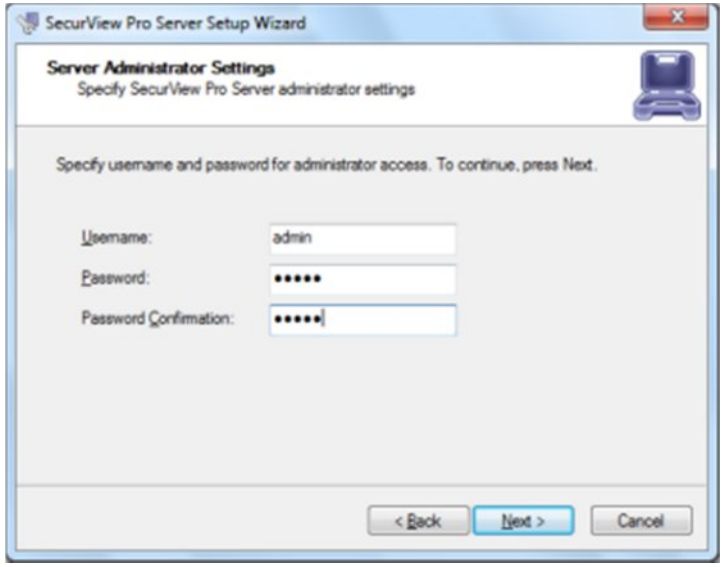
SecurView Pro Server Setup Wizard

1. The "SecurView Pro Server Setup Wizard" appears. Click **Next**.
2. When the "Server Properties" window appears, enter your machines unique Identifying name and server title. It is recommended that you check "Compact the configuration database" (checking this option will help optimize your configuration database in the future). Click **Next**


SecurView Pro Server Setup Wizard
Server Properties
Specify SecurView Pro Server properties
Specify server unique identifier, title and database settings. To accept default settings, leave values intact and press Next.
Server Identifier:
Server Title:
TEST-PC
SecurView Pro at TEST-PC
Configuration Database:
C:\Program Files (x86)\TRENDnet\SecurView Pro\Digital Video Recorder.mdb
Compact the configuration database
< Back
Next >
Cancel

2. The "Server Administration Settings" window appears. Setup the administrator user name and password in this window. Leave the default user name as "admin" (Recommended), enter a unique password in the "Password" field and reenter the password in the "Password Confirmation" field. You will have the chance to add additional users at a later time. Click **Next**

Note: This user name and password is used for broadcast server login.



3. The "Server Network Settings and Port settings" window appears. Click **Next**. The default firewall port that SecurView Pro uses is 60554 but you can change that to any port that you would like as long as it is open on your firewall. Please check with your network administrator or internet service provider about your firewall settings

Allow TCP connections from remote applications: To enable TCP to accept remote connections can be disabled or enable at any time from the SecurView Pro server settings.

TCP Port: 60554 is the default port and it can be changed to your preferences.

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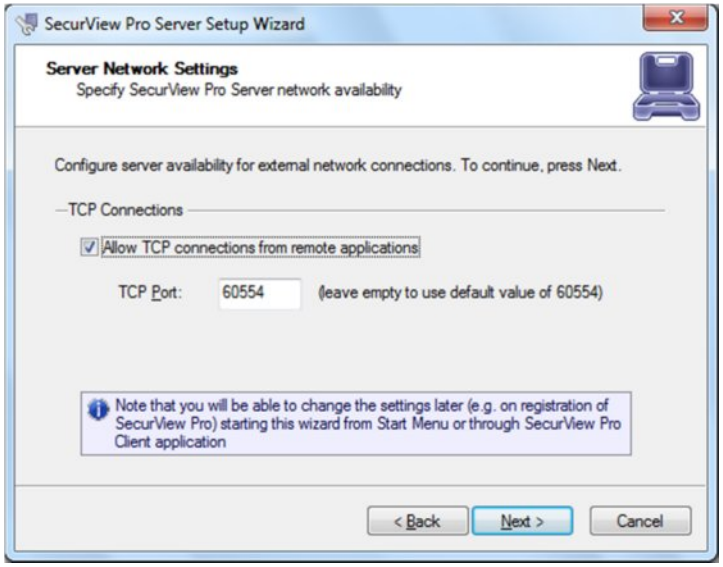
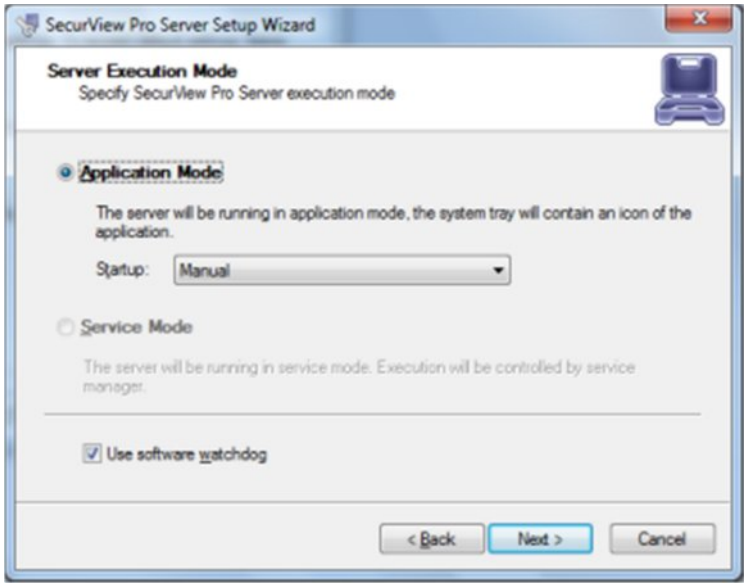

SecurView Pro Server Setup Wizard
Server Network Settings
Specify SecurView Pro Server network availability
Configure server availability for external network connections. To continue, press Next.
TCP Connections
Allow TCP connections from remote applications
TCP Port:
60554
(leave empty to use default value of 60554)
Note that you will be able to change the settings later (e.g. on registration of SecurView Pro) starting this wizard from Start Menu or through SecurView Pro Client application
< Back
Next >
Cancel

4. The "Server Execution Mode" window appears. Select **Application Mode** and then click **Next**.

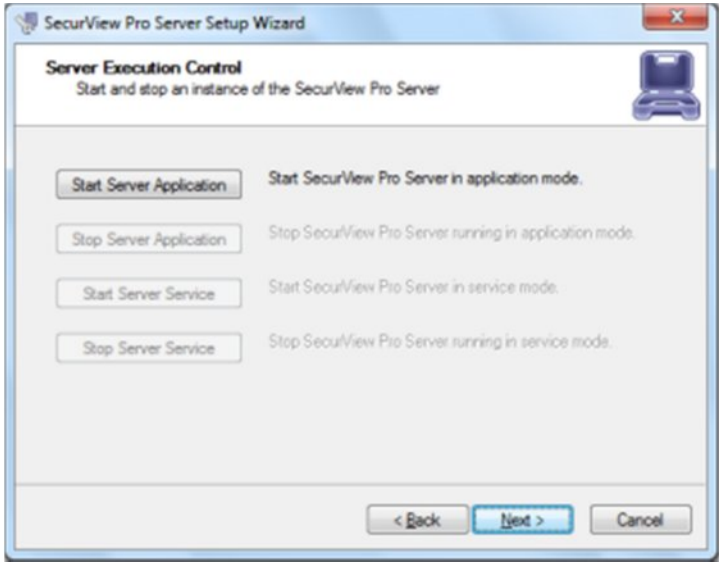
Application Mode.

The following **"Startup"** option can be selected:

- **Manual**: That means you will physically have to double click the program to get it started.
- **Automatically with any user logon**: The software will open up when any user logs into Windows on that machine.
- **Automatically with current user logon**: The user currently logged into Windows, will be the user that activates SecurView Pro upon Windows login.


SecurView Pro Server Setup Wizard
Server Execution Mode
Specify SecurView Pro Server execution mode
Application Mode
The server will be running in application mode, the system tray will contain an icon of the application.
Startup:
Manual
Service Mode
The server will be running in service mode. Execution will be controlled by service manager.
Use software watchdog
< Back
Next >
Cancel

5. The "Server Execution Control" window appears. Click **Start Server** Application and then click **Next.**


SecurView Pro Server Setup Wizard
Server Execution Control
Start and stop an instance of the SecurView Pro Server
Start Server Application
Start SecurView Pro Server in application mode.
Stop Server Application
Stop SecurView Pro Server running in application mode.
Start Server Service
Start SecurView Pro Server in service mode.
Stop Server Service
Stop SecurView Pro Server running in service mode.
< Back
Next >
Cancel

6. Click **Finish** to exit the wizard.**End of Server Installation**.

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SecurView Pro Terminology

Panel – Panel, window

Toggle- To alternate between two or more electronic, mechanical, or computer-related options, usually by the operation of a single switch or keystroke

Toolbar- The toolbar that you see at the top of your screen gives you various options such as open, save and various screen manipulations, at the click of a button.

Open Configuration- This button on the toolbar allows you to open previous SecurView Pro configurations. It is most useful if you are exporting configurations from one machine to another.

Save Configuration- This button on the toolbar allows you to save any changes that you have just made to your DVR, it will continue to save to the same file unless you click on File and Save As then you can save to a different file or even to a floppy.

Structure Pane - This button toggles whether you see or don't see the structure pane on the left side of your SecurView Pro window. The structure pane is most useful when you are looking at cameras from multiple locations and multiple SecurView Pro servers. We will discuss the structure pane later on in this chapter.

Structure Filter Pane – This button toggles whether you see or don't see the *structure pane* on the left side of your Luxriot window. The *structure pane* is most useful when you are looking at cameras from multiple locations and multiple Luxriot servers. We will discuss the *structure pane* later on in this chapter.

Events - This button toggles the events window. The events window gives you important notifications such as, when you are connecting to a server successfully. It lets you know if you have input improper user names and passwords and gives you error codes when needed.

PTZ Control - This button toggles the PTZ control pane. If you do not have a pan-tilt-zoom camera connected to your system then this button does no need to be pressed.

Video amplification- This button toggles the video amplification pane. When this button is pressed a pane will come up from which you will be able to adjust the brightness, contrast, saturation, sharpness, and hue for any camera.

Audio- This button toggles Audio pane control. Audio pane enables you to listen to Audio from different cameras.

Full Screen - This button toggles full screen mode. In full screen, none of the panes will be seen and the cameras will be expanded to their maximum size to fill the full screen of your monitor.

Open Archive – This button opens archive viewer window. You will be able to view archived data of your connected DVR.

Emergency Recording – On activation of emergency recording mode for a device, the footage is recorded at full frame rate during specific period of time and then is automatically returned to regular recording settings.

Manage Maps – This button toggles map module window for managing and viewing cameras on Google or previously added maps.

Save Current Frame as – This button allows you to save currently rendered video frame into file. Frame from selected screen will be saved only.

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Wizards- The wizard's icon on the toolbar gives you a shortcut to various server, and camera options and configurations. You can also access these features through the right click menus in the software.

Views- These buttons on the toolbar allow you to manipulate your views and camera layouts to your own preference.

Screen Footer- The screen footer button on the toolbar allows you to display various information underneath each camera window. It can display current frame time, image resolution, and average image size per frame and average frame rate per second. The screen footer is the text below each camera

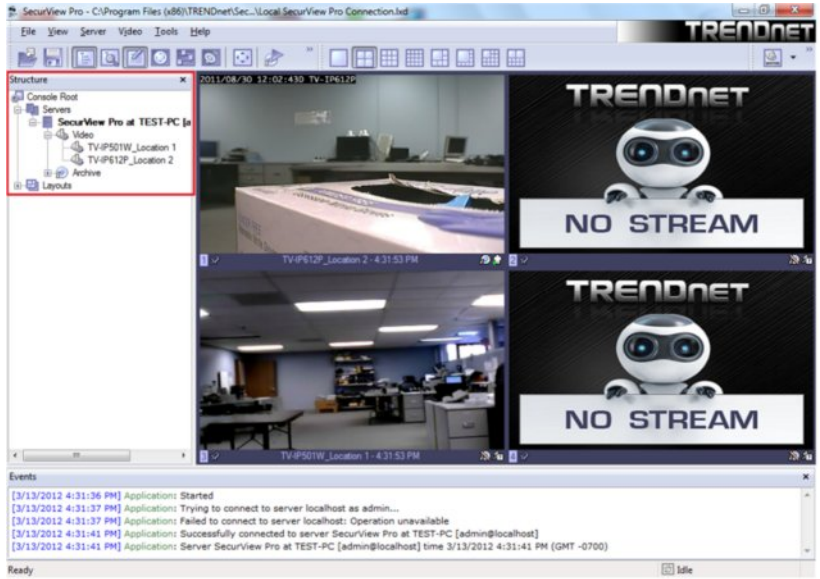
Stream Selection- The stream selection button allows you to pick which camera you would like to view in the selected camera window. This can also be done through the right click menus and by dragging the desired camera from the structure pane to the desired display window, or right click on any camera window and select stream.

Show Motion- The show motion toolbar button toggles whether or not you want the motion outlined on the selected camera screen. Note: Motion detection must be setup before this feature can be activated

Maximize- When pressed the maximize button puts the selected camera into a single view, if pressed again it will return to the previous view. This can also be accomplished by double clicking on the camera of choice.

Structure Pane

The structure pane is the control center. This is where you will setup all of your cameras as well as your server.



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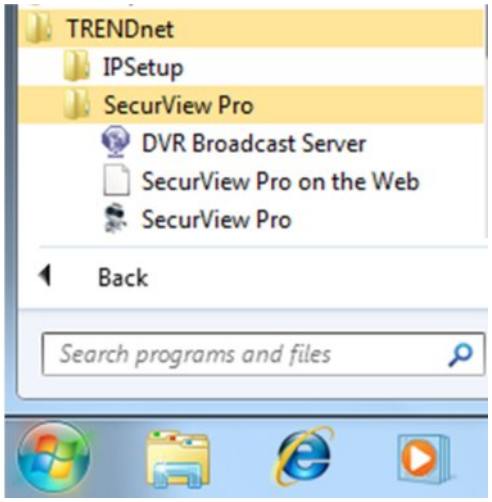
Broadcast Server Connections

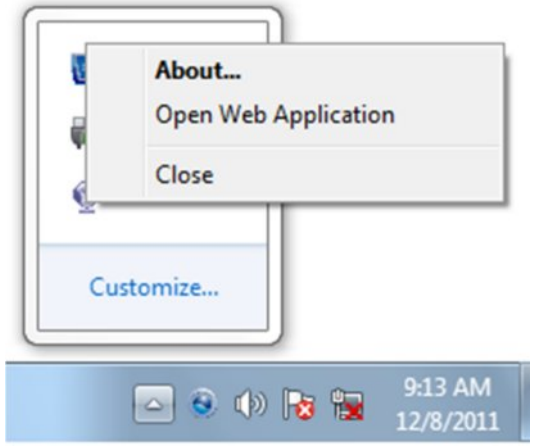
SecurView Pro Broadcast Server - is a separate product to broadcast video streams to multiple web-browsing platforms (e.g. Internet Explorer, Firefox, and Google Chrome) as well as for iPhone, Android, etc. SecurView Pro Broadcast Server will resample and recompress video stream for web or mobile client depending on connection speed and viewing capabilities.

1. Start Broadcast Server by clicking on the Start or Windows Icon and then click Program Files→ TRENDnet -> SecurView Pro -> DVR Broadcast Server. This will start Broadcast Server for Viewing over Web browser and Smartphone devices such as Android and/or iPhone through browser.



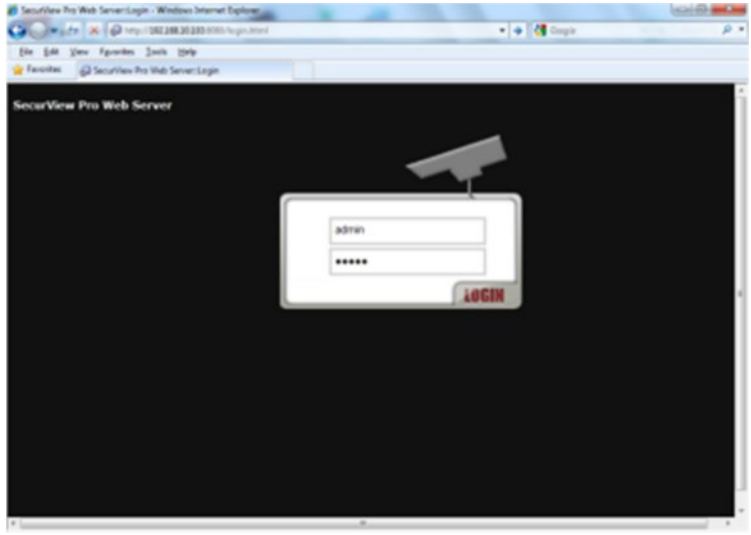
2. The Broadcast Server icon will appear in system tray and through it you will be able test/configure Broadcast Server operation. To open the Broadcast Server, Right click on the icon → Open Web Application or enter the IP address of the server followed by port 8080.

For Example: http://192.xxx.xxx.xxx:8080



Also you can enter Broadcast domain for access over the Internet.

Use the previously set SecurView Pro software user name and password to login to broadcast server.



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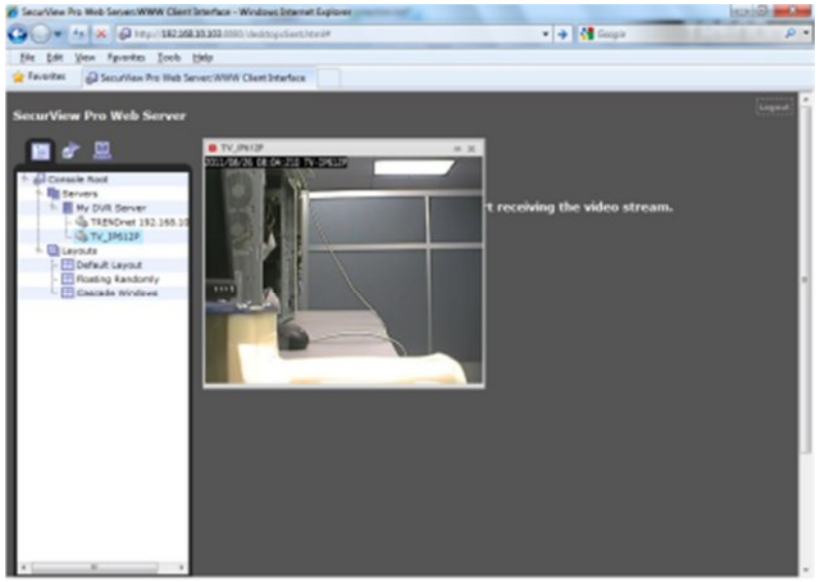
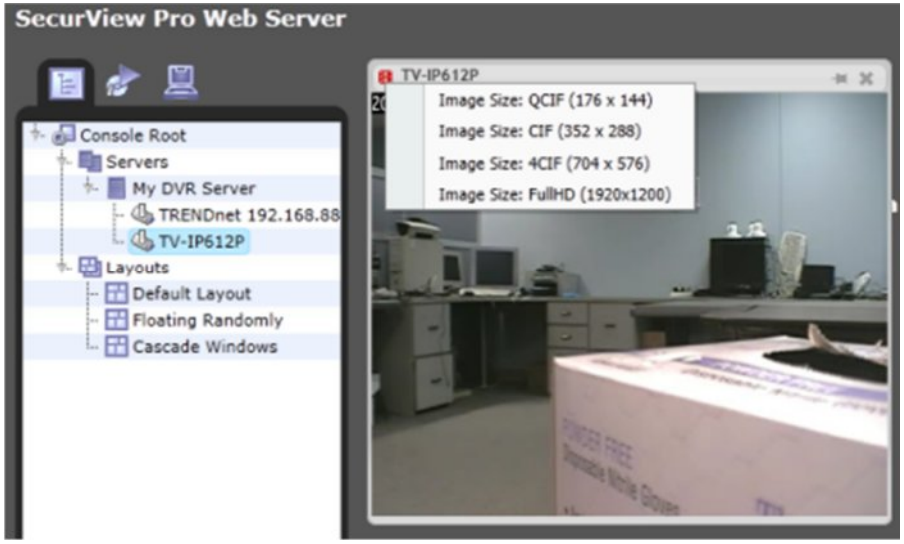
When logged into the server via the browser on a PC or Mac, you can click on any cameras to the left in structure pane. The IP cameras will be displayed in main screen as separate windows that can be resized and moved anywhere within the window.

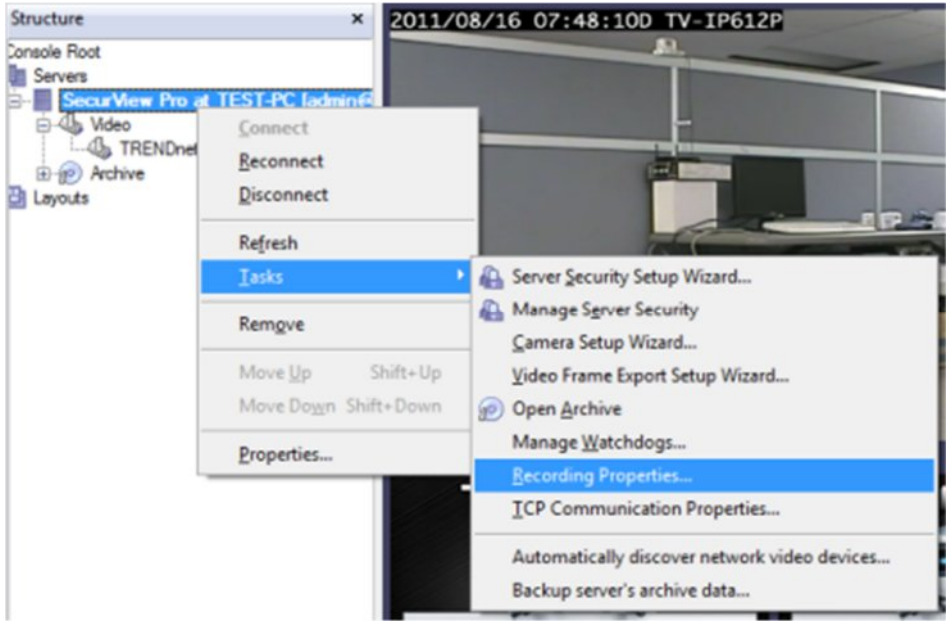




Chapter 3

Server Recording Properties

1. Right click on your server
2. Click **Tasks**.
3. Click **Recording Properties**.



- **Directories**
  - **Priority**- Choose which of your drives records first. Check and then highlight (by clicking one time) the drive you wish to customize in this portion
  - **Quota** - Chose the amount of space you would like to designate for storage on that particular hard drive. NOTE: NEVER, choose 100% for the C Drive. This may cause your machine to eventually crash due to not available virtual memory for page. The reasonable quota is 85-90% of the drive capacity to avoid the effects of fragmentation issues and also to allow the highly loaded DVR to effectively enforce recording quotas

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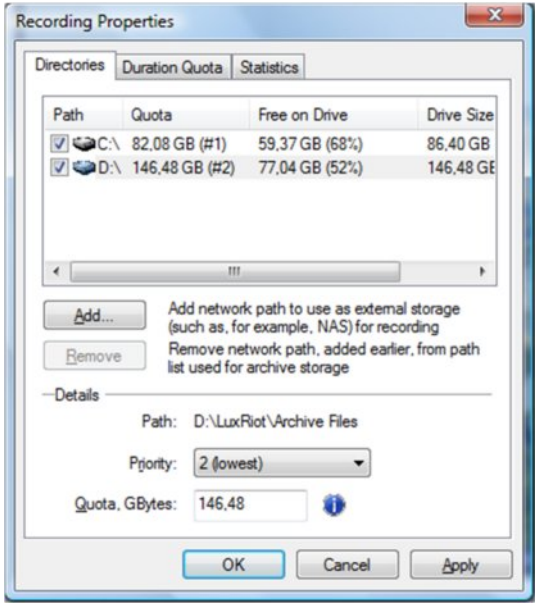
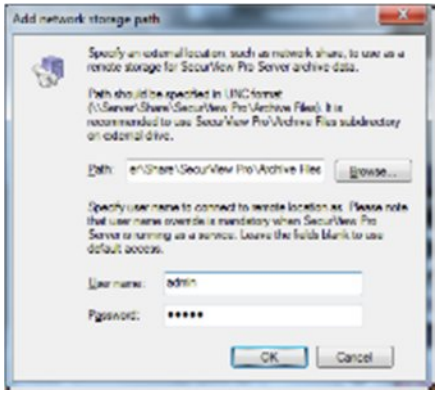
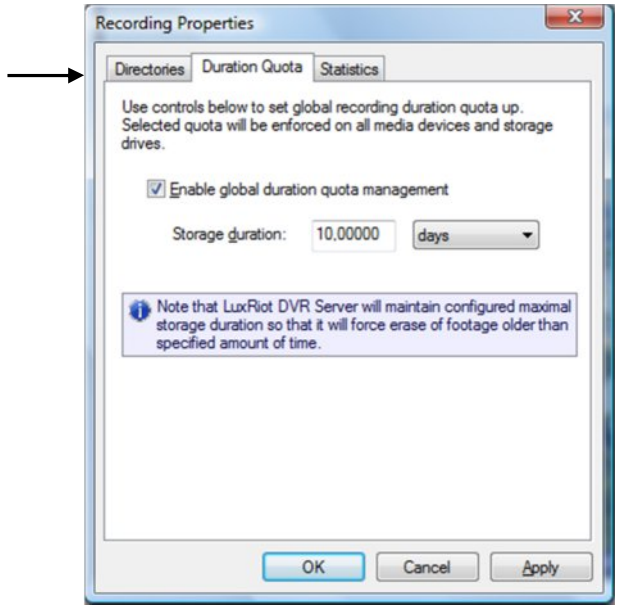


- **Add** - Add external storage address for recording such as sharing on a remote computer or NAS drive.



- **Remove**- This button removes currently selected network storage path.

- **Duration Quota**
  - **Storage Duration** - Chose the numbers of days you would like to store.


Recording Properties
Directories
Duration Quota
Statistics
Use controls below to set global recording duration quota up. Selected quota will be enforced on all media devices and storage drives.
Enable global duration quota management
Storage duration: 10,00000 days
Note that LuxRiot DVR Server will maintain configured maximal storage duration so that it will force erase of footage older than specified amount of time.
OK
Cancel
Apply

- **Statistics** - Check on used spaced and available space left on the hard drives being used by SecurView Pro.

4. Click **Apply** to save settings.

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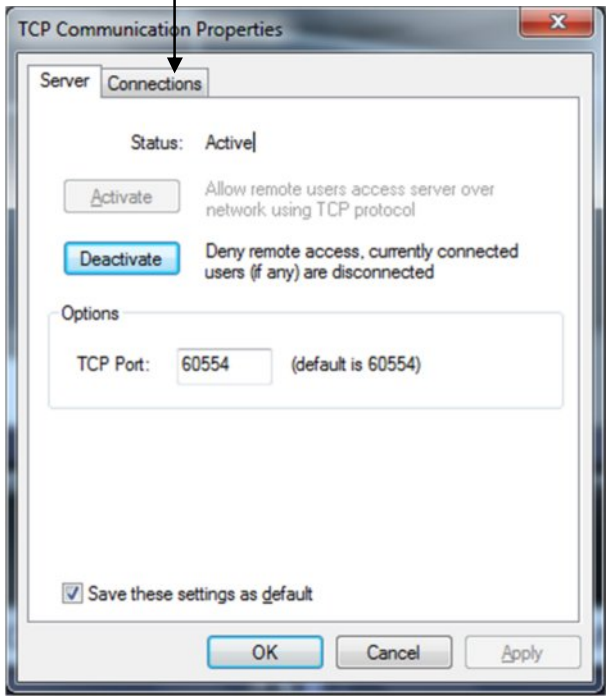
Server Communication Properties

1. Right click on your server
2. Click **Tasks**.
3. Click **TCP Communication Properties**.

Connections- Here you can see at all times who is connected to your server. The IP address, user name and connection time can all be seen. Click refresh at any time for an updated list.



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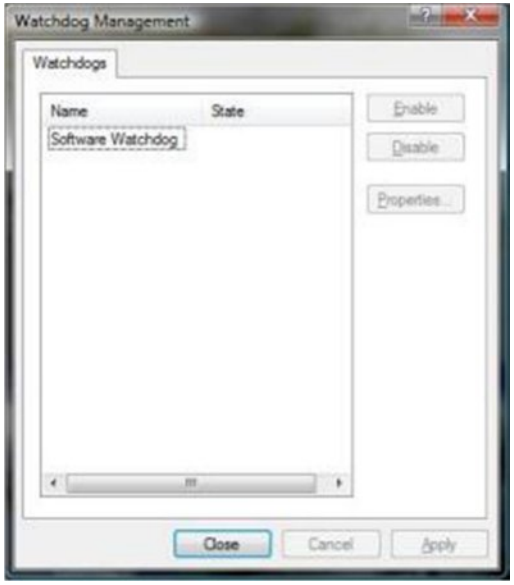
Server Watchdog

Your Server Watchdog performs an important operation, protecting your software from improperly working due to system problems. Configuring your watchdog is not necessary, if you chose to enable it during installation. The default settings will work well, however if you are having frequent restarts, adjusting it may become vital.

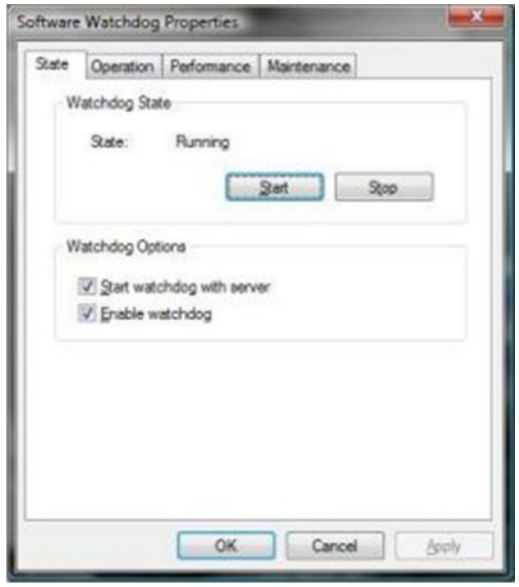
1. Right click on your server
2. Click **Tasks**.
3. Click **Manage Watchdog**.
4. In order to select the "Disable", "Enable" and "Properties" buttons, left click on "Software Watchdog".



State

Properties > State

- **State**- Start or Stop running Watchdog.
- **Start Watchdog with Server**- Will begin the Watchdog application when server is started.
- **Enable Watchdog**-Will keep Watchdog running at all times.



Watchdog Operation

Properties > Operation

Grace Interval Seconds- The grace period given when starting the application.

Reboot Interval Minutes- The amount of time Watchdog will allow between reboots.

Number of Failure to Reboot- The amount of failed attempts to fix whatever problem has been detected, by restarting only the SecurView Pro application. Once this number has been reached, Watchdog will now reboot Windows and the SecurView Pro application.

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Software Watchdog Properties
State
Operation
Performance
Maintenance
Watchdog will not perform restart or reboot actions within grace interval from the start of the application.
Grace interval, seconds:
Watchdog can reboot the system in case failures are too frequent. Should watchdog register at least specified number of failures within last specified interval of time, it will restart Windows. Set interval to zero to disable the feature.
Reboot interval, minutes:
5
Number of failures to reboot:
3
OK
Cancel
Apply

Performance

Properties > Performance

This tab allows you to configure which environment performance counters and variables will determine necessity of server or system restart. Watchdog will attempt to restart server or system after any specified threshold exceeding; There are also visible current values of the environment variables.

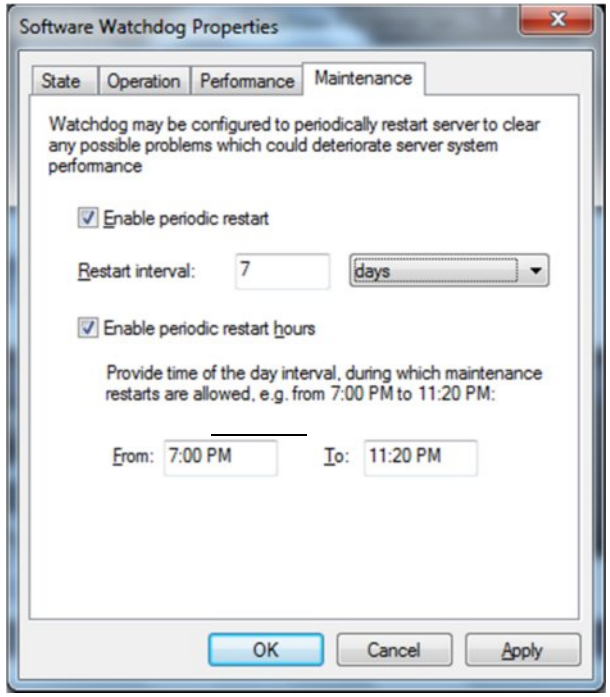
Maintenance

Properties > Maintenance

Restart Intervals- Days or Hours.

Enable Periodic Restart- Enabling this feature will restart the Server Application at times specified. It is recommended to restart the Server Application to Refresh system resources. The Watchdog Server-Restart will go virtually unnoticed by the user.

Enable Periodic Restart Hours- Enabling this feature allows the user to define a range in hours during which maintenance restarts are allowed (e.g. from 7:00PM to 11:20PM).



Note: If any changes have been made, click **Apply**.

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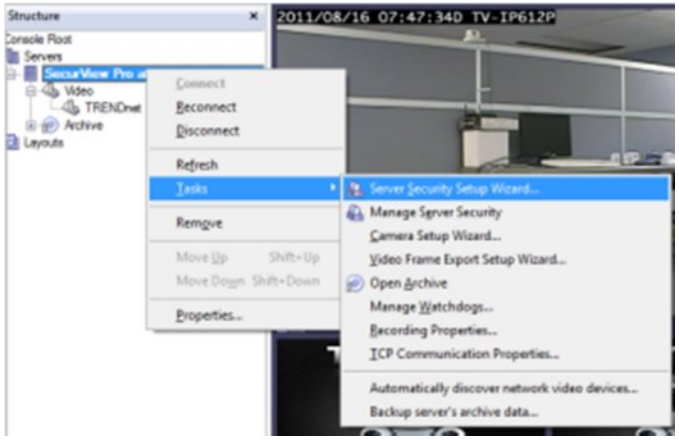
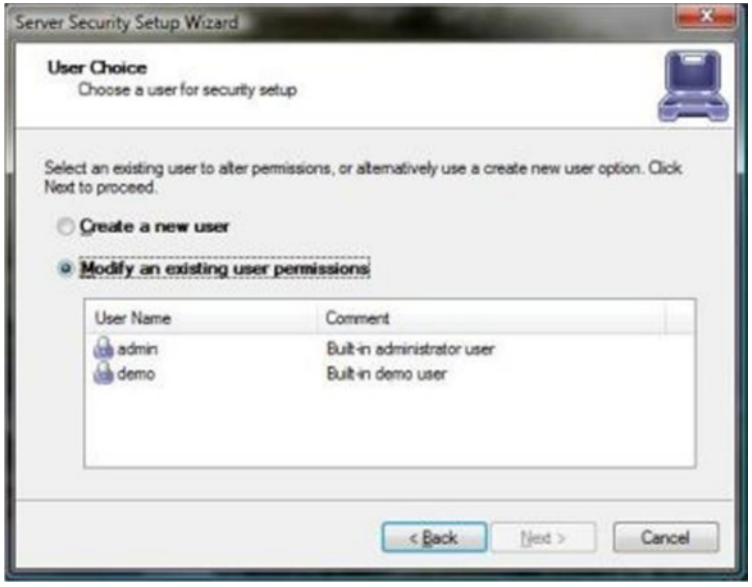
Server User Management

To start the "Server Security Wizard", right-click on the server within the Structure pane, click **Tasks** and then click **Server Security Wizard**.



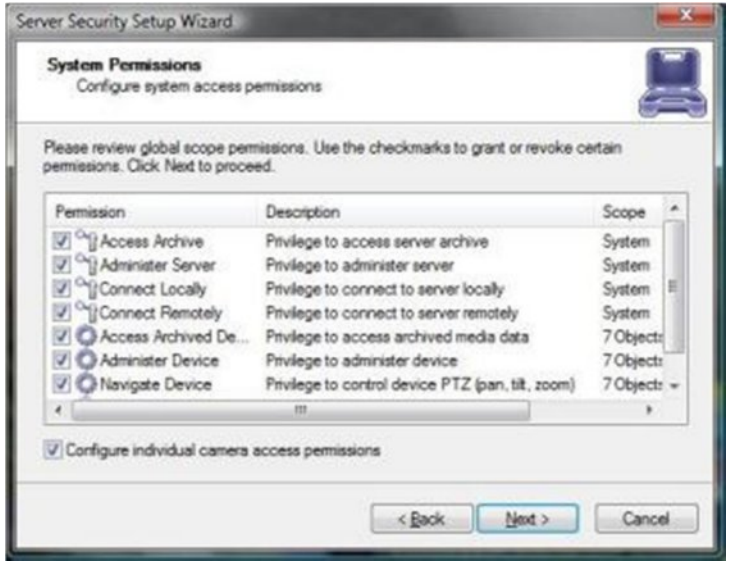
Create users or modify existing users rights

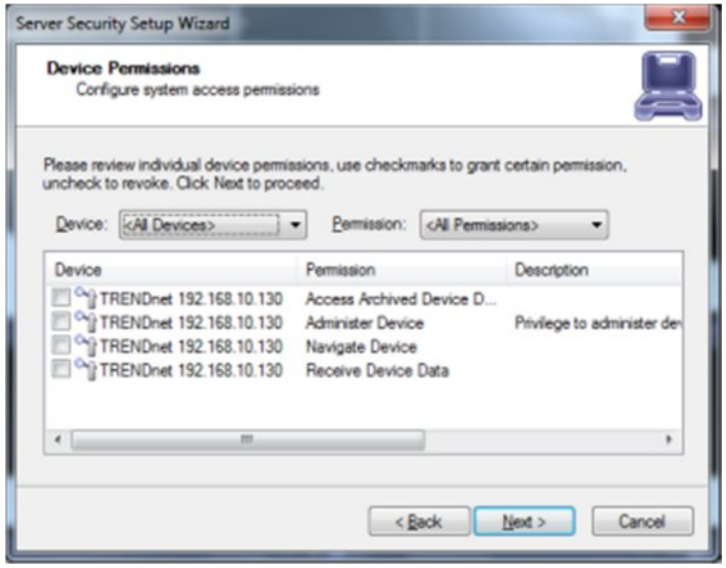
This wizard guides you step by step to add, remove, or modify user permissions.


Server Security Setup Wizard
User Choice
Choose a user for security setup
Select an existing user to alter permissions, or alternatively use a create new user option. Click Next to proceed.
Create a new user
Modify an existing user permissions
User Name
Comment
admin
Built-in administrator user
demo
Built-in demo user
< Back
Next >
Cancel

System/User Permissions

As you see SecurView Pro system permissions provides Global Scope permissions for better user management.





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Chapter 4

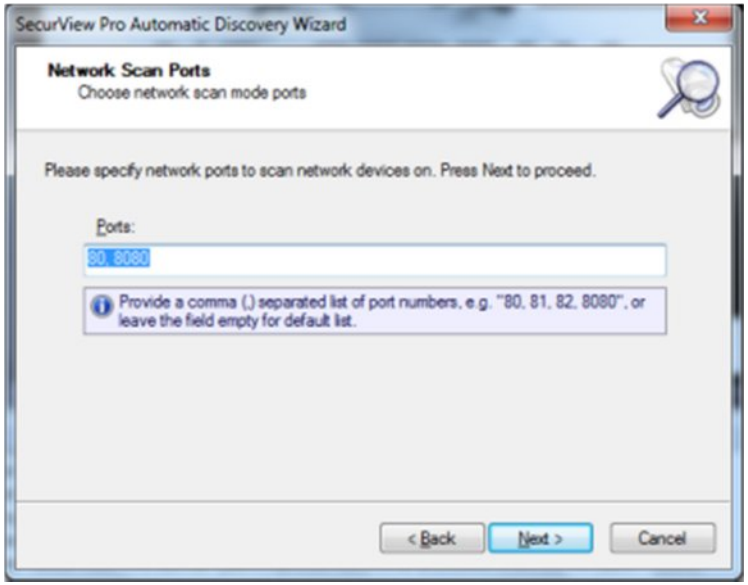
Setting up an IP Camera

There are two ways of setting up an IP camera to work with SecurView Pro:

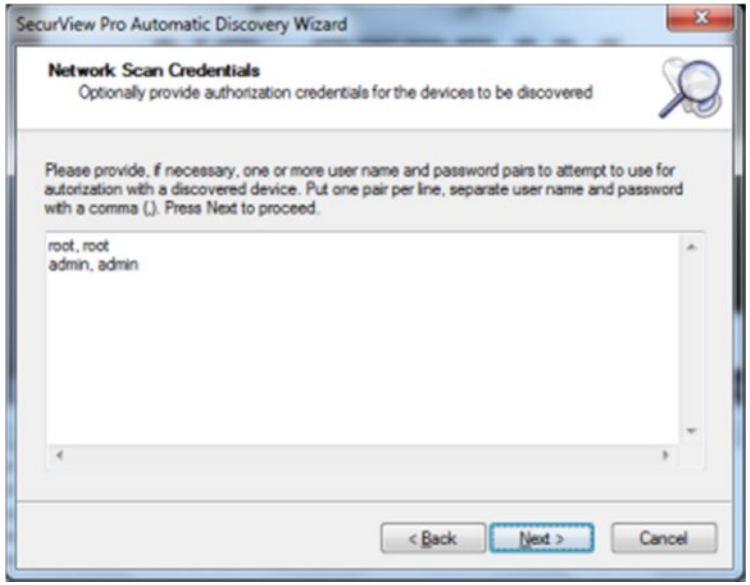
1. Let the software find the cameras automatically
2. Manually input all of the camera's IP information

Configure your IP Cameras automatically

1. Right click on your server name
2. Click **Tasks**
3. Click **Auto discover network video devices**.
4. The "SecurView Pro Automatic Discovery Wizard "will appear. Click **Next.**
5. Insert the port number for your IP cameras and then click **Next**.


SecurView Pro Automatic Discovery Wizard
Network Scan Ports
Choose network scan mode ports
Please specify network ports to scan network devices on. Press Next to proceed.
Ports:
80, 8080
Provide a comma (,) separated list of port numbers, e.g. "80, 81, 82, 8080", or leave the field empty for default list.
< Back
Next >
Cancel

6. Insert the user name and password for each IP camera and then click **Next**.


SecurView Pro Automatic Discovery Wizard
Network Scan Credentials
Optionally provide authorization credentials for the devices to be discovered
Please provide, if necessary, one or more user name and password pairs to attempt to use for autorization with a discovered device. Put one pair per line, separate user name and password with a comma (,). Press Next to proceed.
root, root
admin, admin
< Back
Next >
Cancel

7. Select **Scan network adapter address range** and then click **Next**.

- **Scan network adapter address range:** If you select this option, choose network adapters for searching your network.
- **Scan IP address range**- If you know your network's IP range, you can search by the IP range for the cameras as well.

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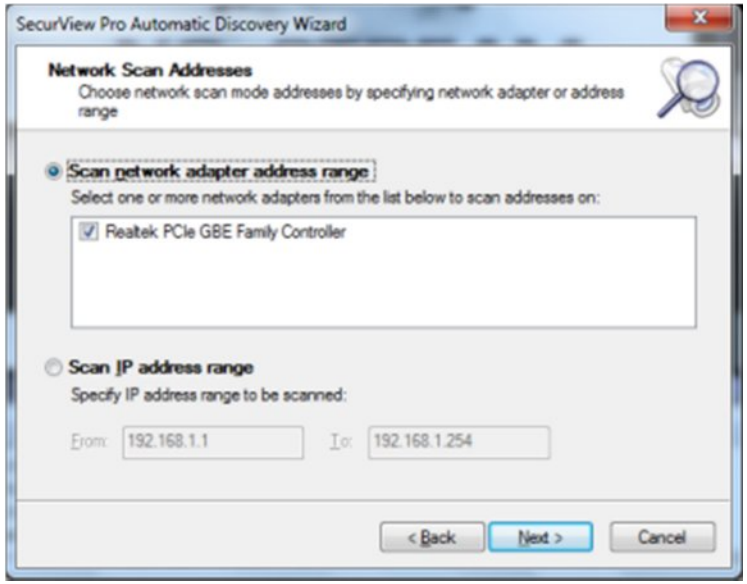
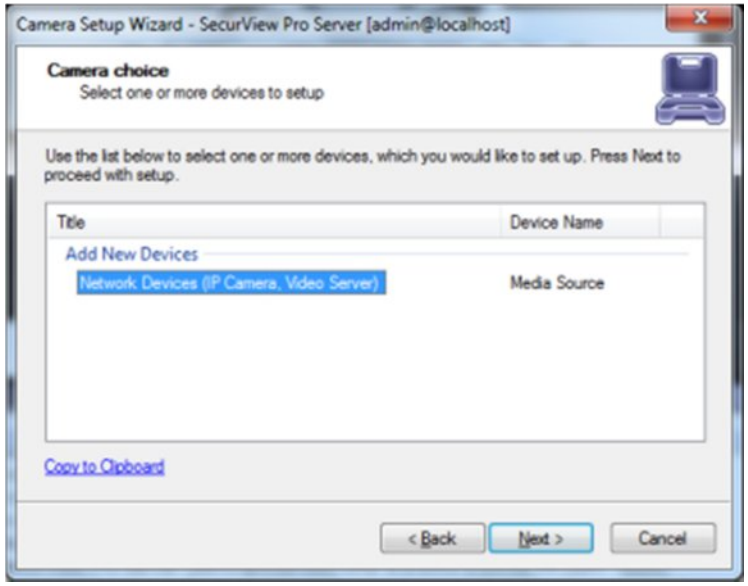

SecurView Pro Automatic Discovery Wizard
Network Scan Addresses
Choose network scan mode addresses by specifying network adapter or address range
Scan network adapter address range
Select one or more network adapters from the list below to scan addresses on:
Realtek PCIe GBE Family Controller
Scan IP address range
Specify IP address range to be scanned:
From: 192.168.1.1
To: 192.168.1.254
< Back
Next >
Cancel

8. SecurView Pro will now begin scanning your network and specified ports for any IP cameras. Once it is finished it will give you a list of the cameras that it found and give you an option to add them to SecurView Pro.

Configure your IP Cameras manually

1. Right click on your server name
2. Click **tasks**
3. Choose "Camera setup Wizard".
4. Select "Network Devices (IP Camera, Video Server)".


Camera Setup Wizard - SecurView Pro Server [admin@localhost]
Camera choice
Select one or more devices to setup
Use the list below to select one or more devices, which you would like to set up. Press Next to proceed with setup.
Title
Device Name
Add New Devices
Network Devices (IP Camera, Video Server)
Media Source
Copy to Clipboard
< Back
Next >
Cancel

5. Click **Next**.
6. For "Device title", type in a name for the IP Camera.
7. Click **Properties**.

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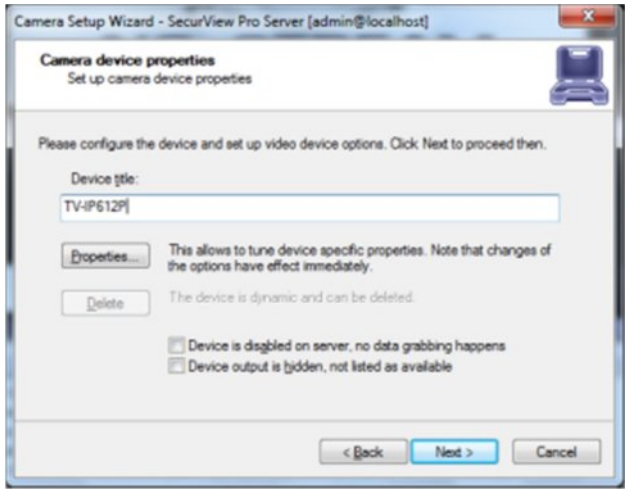
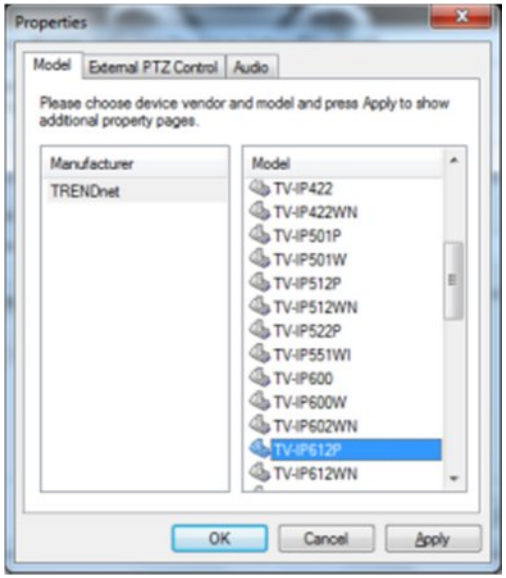

Camera Setup Wizard - SecurView Pro Server [admin@localhost]
Camera device properties
Set up camera device properties
Please configure the device and set up video device options. Click Next to proceed then.
Device title:
TV-IP612P
Properties...
This allows to tune device specific properties. Note that changes of the options have effect immediately.
Delete
The device is dynamic and can be deleted.
Device is disabled on server, no data grabbing happens
Device output is hidden, not listed as available
< Back
Next >
Cancel

Note: The tabs under properties are described below

Model Tab

Properties > Model

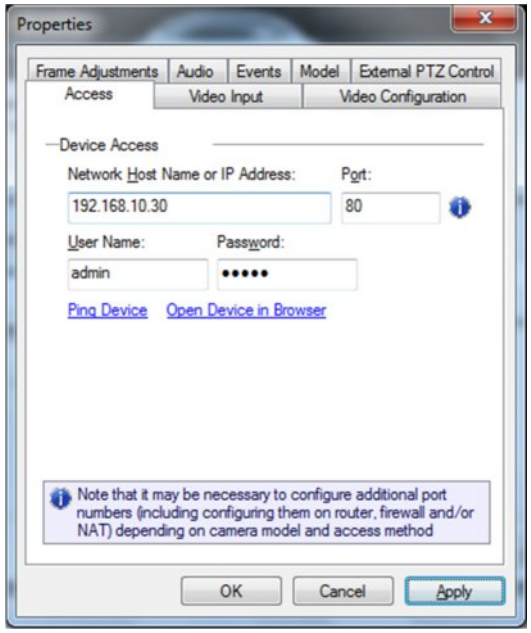
- Select TRENDnet and then select the IP camera model. Then click **Apply**.



Access Tab

Properties > Access

- Input the IP address of the IP Camera, Port Number, User Name and Password. Then click **Apply**.



Video Input Tab

Properties > Video Input

- Select "Trendnet" for Operation mode.

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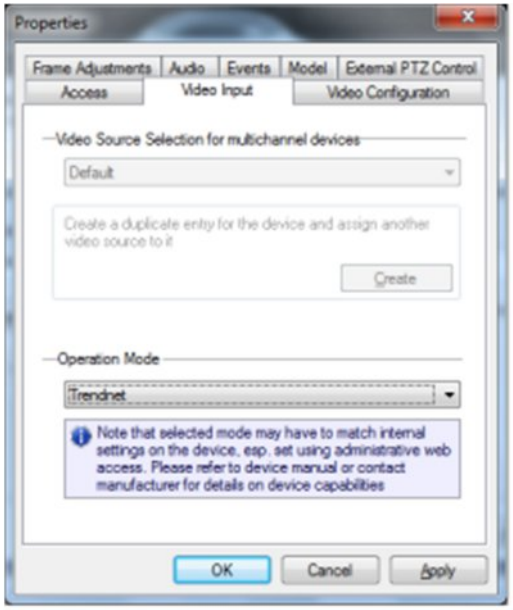

Video Configuration Tab

Properties > Video Configuration

- Color Mode- Color or black and white
- Resolution: Quality of the picture. The higher quality you choose the more space it will take. Options include 704 x 450, 352 x 240 and 176 x 112.
- Encoding: Choose the encoding type that is supported by your camera. Options include Default, MJPEG, MPEG-4 and H.264. Depending on the Encoding type selected, you may be able to adjust the following;
    - I-Frame Interval
    - Bit Mode
    - Quality
    - Bit Rate
- Frame Rate: Here you may adjust the frame rate for the ip camera. Options include Default, 1, 2, 3, 5, 10, 15 and 30.

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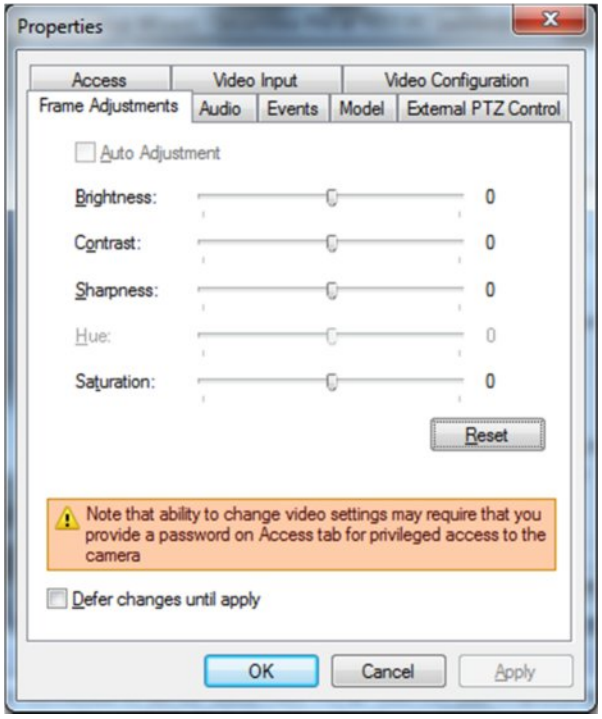
Frame Adjustment Tab

Properties > Frame Adjustment

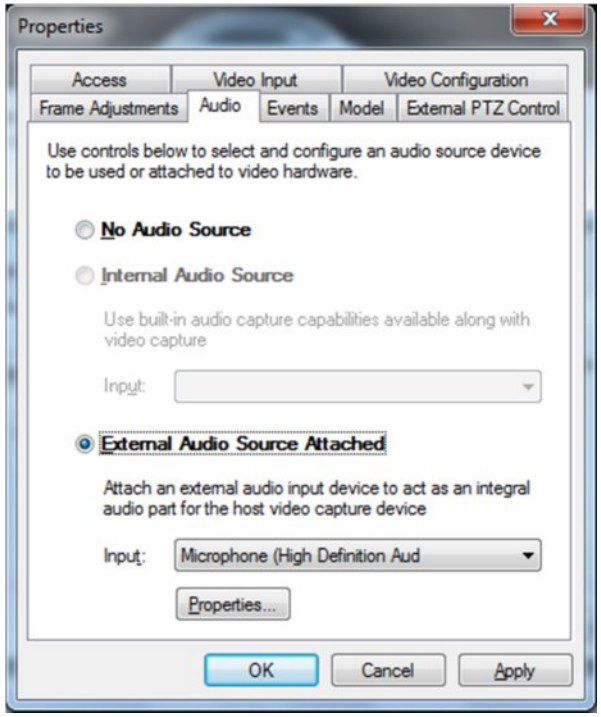
- Brightness, Contrast, etc… Change the appearance of your video quality.



Audio Tab

Properties > Audio

- Audio Input. Audio input can be the audio in of the pc main-board or additional USB audios.



- Options for Internal Audio Source from an IP camera can be found under the camera properties. From the Audio Tab the internal Audio source can be selected and activated.
- If the camera selected is not an audio compatible camera then the Internal Audio Source" option will not be activated. In the case that the camera does not support internal audio, you can select external audio and use a usb microphone (for one way audio) or your computer's built in microphone.

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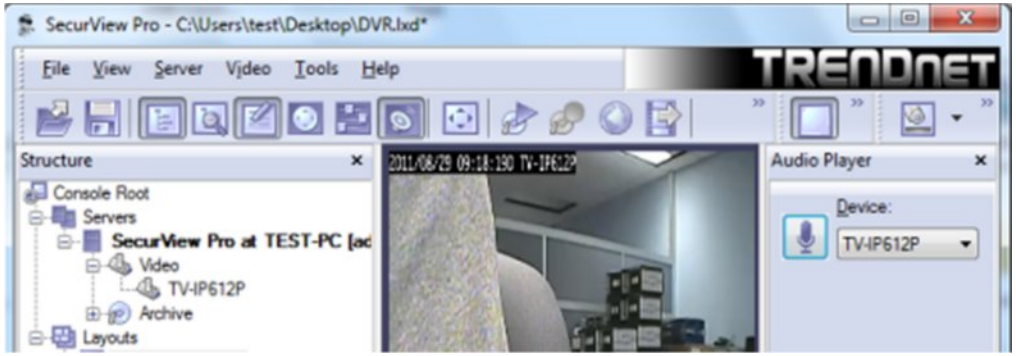
- Audio to the camera can be sent via Client application Audio Pane by selecting a camera from the list and pressing the microphone icon. When the icon is pressed you can speak into microphone connected to Client PC and audio should be sent to the speaker connected to the remote camera.



Events

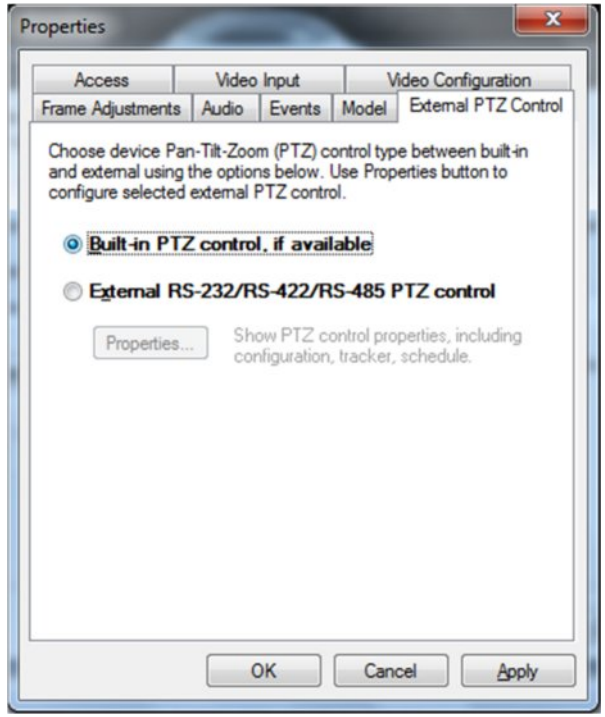
Properties > Events

For more information regarding Events, see Digital Input Configuration and Events sections on page

External PTZ Control Tab

Properties > External PTZ Control

Click Properties.



- **Pan-Tilt-Zoom Protocol**: If you do have an external pan-tilt-zoom device connected to your IP camera, you must choose the correct communication protocol. The protocol has to match the protocol assign on your PTZ camera.

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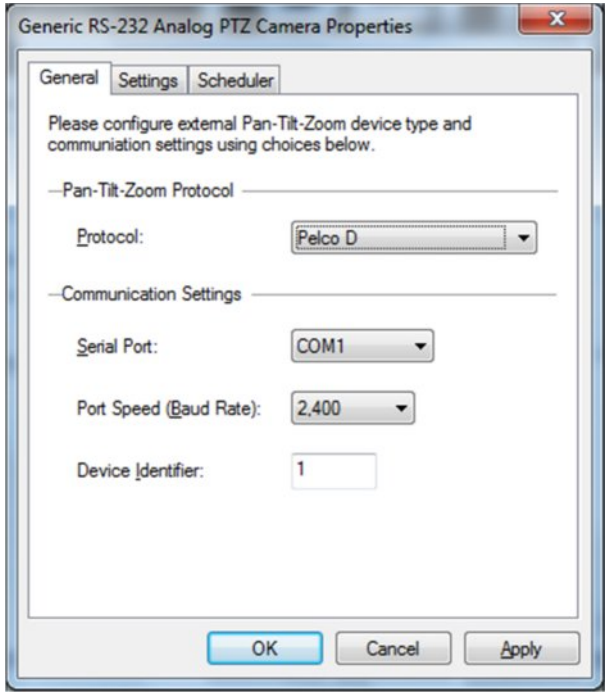
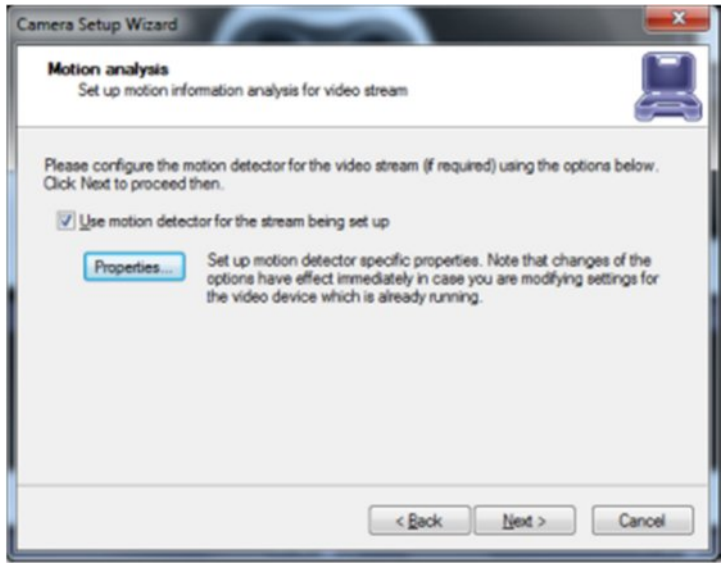
- **Communication Settings.**
  - **Serial Port** – The communication port has to match the communication port that the RS232/485 controller is connected.
  - **Port Speed (Baud Rate)** – Baud rate has to match the baud rate of your PTZ camera.
  - **Device Identifier** – Device Identifier, is a unique ID that has to be set on PTZ cameras. Having multiple PTZ cameras requires a unique id to be set on every individual PTZ camera. Failing to assign a unique id to every single PTZ camera will result for all cameras to move at the same time.



8. Click **Apply** to save the settings.
9. Click **OK** to exit the properties window.
10. Back in the setup wizard, click **Next**.
11. The "Motion Analysis" window appears.

- **Use Motion for the steam being set up**- This box should be checked if you are interested in using Motion Detection. We recommend you use motion detection for it will save you an abundance of well-needed storage space. Choose Properties


Camera Setup Wizard
Motion analysis
Set up motion information analysis for video stream
Please configure the motion detector for the video stream (if required) using the options below. Click Next to proceed then.
Use motion detector for the stream being set up
Properties...
Set up motion detector specific properties. Note that changes of the options have effect immediately in case you are modifying settings for the video device which is already running.
< Back
Next >
Cancel

12. Click **Properties**.

Sensitivity Tab

Properties > Sensitivity

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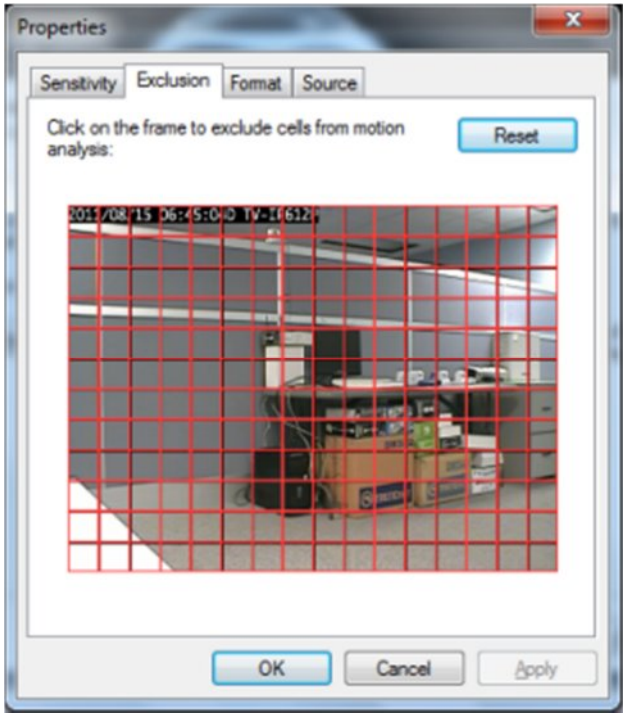
The sensitivity should be adjusted to a point where motion is only seen by people and not by blinking lights, reflections, or shadows, otherwise you will get "false motion" and SecurView Pro will be recording based on motion that does not exist.

Exclusion Tab

Properties > Exclusion

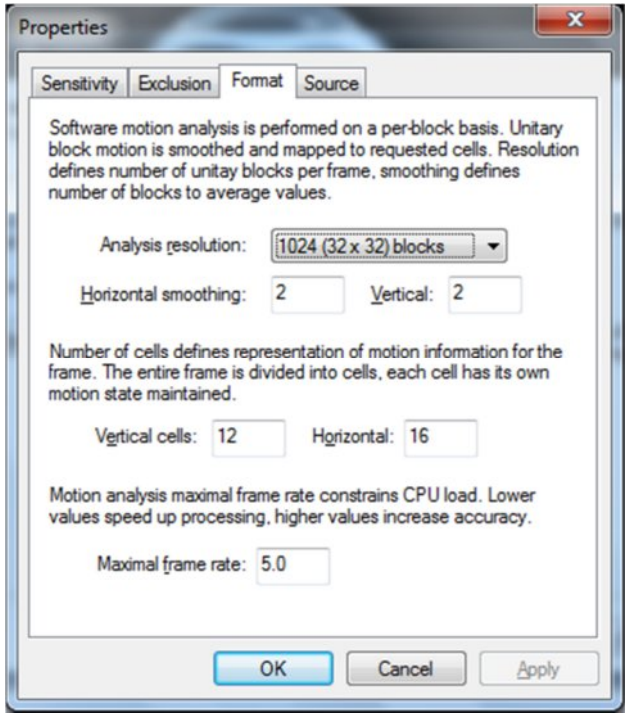


If you are still getting motion from lights, trees or things moving from an air-conditioner or an open door then you can click on exclusion and block the object out from the motion detection grid. You simply click on the grid boxes around the object that you would like to exclude, to remove them from being seen by the motion detection engine in SecurView Pro.

Format Tab

Properties > Format

This controls the internal motion detection analysis properties.


Properties
Sensitivity
Exclusion
Format
Source
Software motion analysis is performed on a per-block basis. Unitary block motion is smoothed and mapped to requested cells. Resolution defines number of unitay blocks per frame, smoothing defines number of blocks to average values.
Analysis resolution:
1024 (32 x 32) blocks
Horizontal smoothing:
2
Vertical:
2
Number of cells defines representation of motion information for the frame. The entire frame is divided into cells, each cell has its own motion state maintained.
Vertical cells:
12
Horizontal:
16
Motion analysis maximal frame rate constrains CPU load. Lower values speed up processing, higher values increase accuracy.
Maximal frame rate:
5.0
OK
Cancel
Apply

- **Analysis resolution**- controls precision of the detection process, the more resolution blocks is selected, the better precision is, and however, the greater CPU consumption is needed.
- **Smoothing**- feature averages preliminary detection result so that neighboring area is included into motion area as well. Smoothing, however, slightly decreases motion detection sensitivity.
- **Horizontal and vertical cell number**- Defines the dimensions of the target grid, which is used as output of the motion detection algorithm. The defined cells are shown. Click ok when finished

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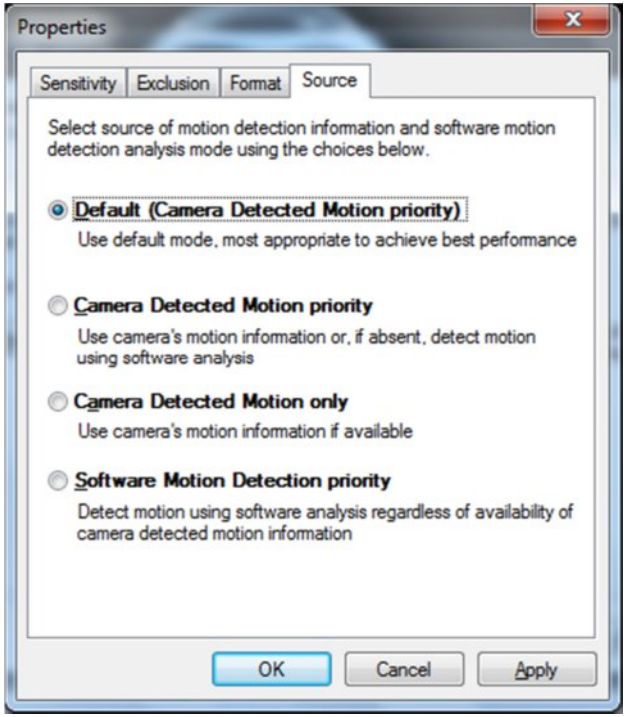
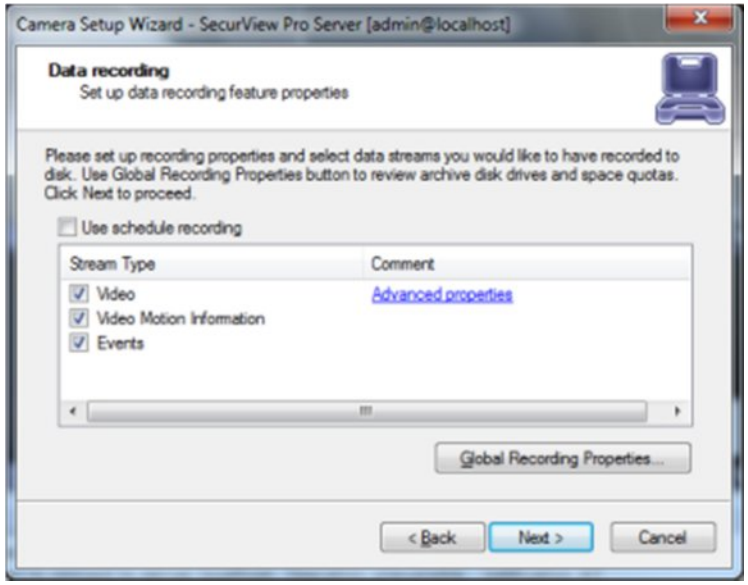
Source Tab

Properties > Source


Properties
Sensitivity
Exclusion
Format
Source
Select source of motion detection information and software motion detection analysis mode using the choices below.
Default (Camera Detected Motion priority)
Use default mode, most appropriate to achieve best performance
Camera Detected Motion priority
Use camera's motion information or, if absent, detect motion using software analysis
Camera Detected Motion only
Use camera's motion information if available
Software Motion Detection priority
Detect motion using software analysis regardless of availability of camera detected motion information
OK
Cancel
Apply

- **Default (Camera Detected Motion Priority)-** automatic mode, software decides what is best.
- **Camera Detected Motion priority**- with this option you enable hardware/on-camera detection to software.
- **Camera Detected Motion only**- instructs to only use hardware detection, wherever available, and never detect via software detection.
- **Software Motion Detection priority-** instructs to use software motion detection only.

12. Click **Apply** to save the settings.
13. Click **OK** to exit the properties window.
14. Back in the setup wizard, click **Next**.
15. The "Data Recording" window appears.
16. Click **Advanced Properties**.


Camera Setup Wizard - SecurView Pro Server [admin@localhost]
Data recording
Set up data recording feature properties
Please set up recording properties and select data streams you would like to have recorded to disk. Use Global Recording Properties button to review archive disk drives and space quotas. Click Next to proceed.
Use schedule recording
Stream Type
Comment
Video
Advanced properties
Video Motion Information
Events
Global Recording Properties...
< Back
Next >
Cancel

Here you can specify whether or not you would like motion information and video recording to be written to the hard drive. It is recommended that you write both to the hard drive, because it will make it much easier to review your recordings with motion information. Without motion being recorded to the hard drive you will not be able to search by general motion or defined motion regions (Smart Search, see Page 36).

Global Recording Properties: For Global Recording Properties, please refer to the Server Recording Properties section at the beginning of Chapter 3.

Advanced properties - Allows you to setup time-lapse recordings, and Enable Motion control recording. Time lapse creates a small delay between every frame that is written to the hard drive. This allows the space available on on your hard drive to be used more efficiently.

Time Lapse Tab

Advanced Properties > Time Lapse

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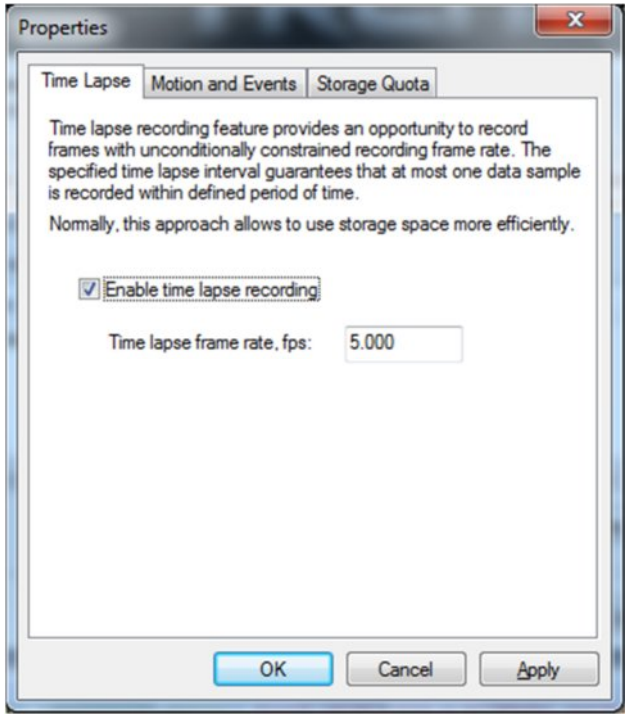

Properties
Time Lapse
Motion and Events
Storage Quota
Time lapse recording feature provides an opportunity to record frames with unconditionally constrained recording frame rate. The specified time lapse interval guarantees that at most one data sample is recorded within defined period of time.
Normally, this approach allows to use storage space more efficiently.
Enable time lapse recording
Time lapse frame rate, fps:
5.000
OK
Cancel
Apply

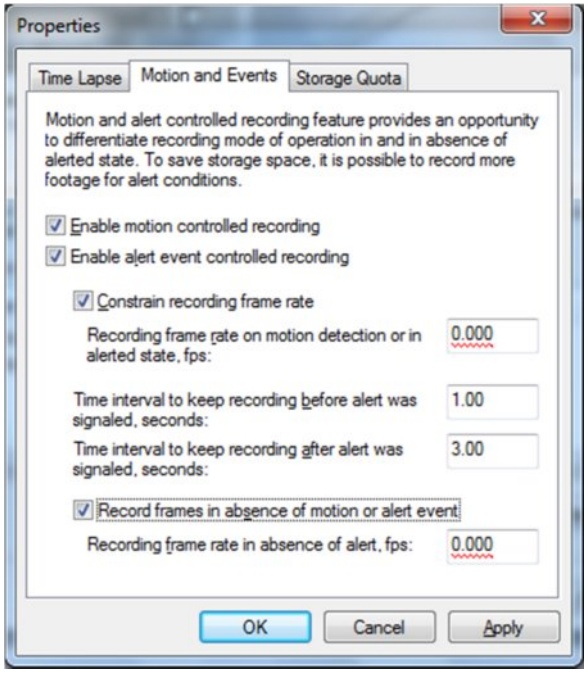
- **Time Lapse recording**: The number of frames to be record camera by camera. It gives you the opportunity to use hard drive space more efficiently. Less important cameras can be set to record less frames than others. This does not apply for MPEG-4 and H.264 compressions.

Motion and Events Tab

Advanced Properties > Motion and Events

Enable Motion control recording to save disk space and make playback more efficient.

.


Properties
Time Lapse
Motion and Events
Storage Quota
Motion and alert controlled recording feature provides an opportunity to differentiate recording mode of operation in and in absence of alerted state. To save storage space, it is possible to record more footage for alert conditions.
Enable motion controlled recording
Enable alert event controlled recording
Constrain recording frame rate
Recording frame rate on motion detection or in alerted state, fps:
0.000
Time interval to keep recording before alert was signaled, seconds:
1.00
Time interval to keep recording after alert was signaled, seconds:
3.00
Record frames in absence of motion or alert event
Recording frame rate in absence of alert, fps:
0.000
OK
Cancel
Apply

- **Enable motion controlled recording -** Enable recording when motion is not detected at selected frame rate. When Motion occurs recording frame rate goes to maximum automatically.
- **Enable alert event controlled recording -** Enable Alert recording Alert is is detected at selected frame rate. **When Alert** occurs recording frame rate goes to maximum automatically.
- **Constrain recording frame rate** - Constrain the number of frames to be record camera by camera. It gives you the opportunity to use HD space more efficiently. Less important cameras can be set to record less frames than others. Cannot apply for Mpeg4 and H.264 compressions.
- **Time interval to keep recording before alert was signaled (in seconds):** Pre-recording allows you to setup the number of seconds you want to have recorded before the last motion.
- **Time interval to keep recording after alert was signaled (in seconds):** Post-recording allows you to setup the number of seconds you want to have recorded after the last motion.

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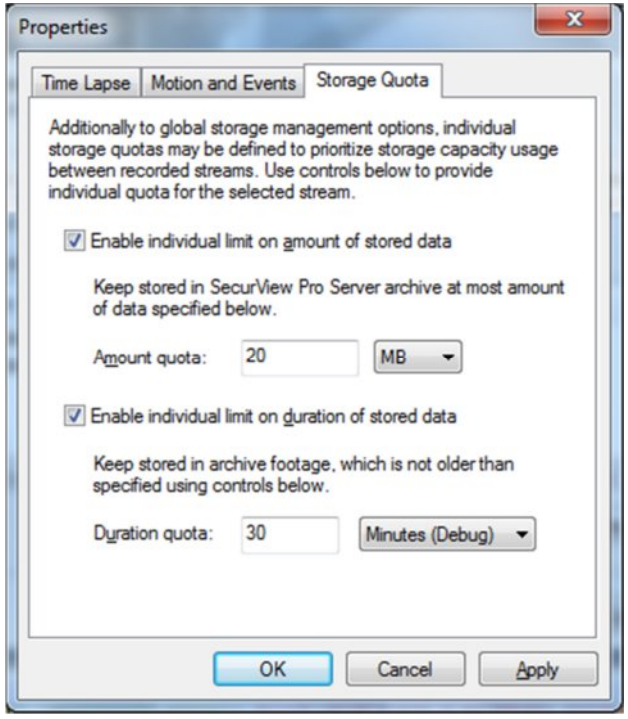
Storage Quota Tab

Advanced Properties > Storage Quota

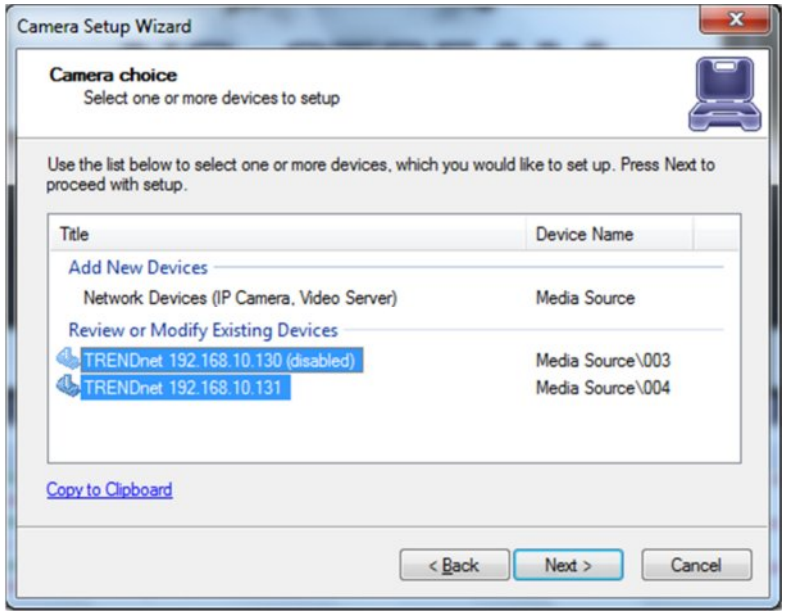
Enable Individual limit on amount of stored data - Enable Individual limit amount for data for the current camera. Some cameras are more important than others and some are less important. The user can define the limit for every individual camera.
Enable Individual limit on duration of stored data - Enable Individual duration limit for the current camera. Can be set to minutes, hours, days or months


Properties
Time Lapse
Motion and Events
Storage Quota
Additionally to global storage management options, individual storage quotas may be defined to prioritize storage capacity usage between recorded streams. Use controls below to provide individual quota for the selected stream.
Enable individual limit on amount of stored data
Keep stored in SecurView Pro Server archive at most amount of data specified below.
Amount quota:
20
MB
Enable individual limit on duration of stored data
Keep stored in archive footage, which is not older than specified using controls below.
Duration quota:
30
Minutes (Debug)
OK
Cancel
Apply

17. Click **Apply** to save the settings.
18. Click **OK**.
19. Checking "Use Schedule Recording" enables schedule recording. See "Schedule Recording Configuration" section for more information. Click **Next**.
20. The "Action Summary" window appears. This page of the camera setup wizard gives you a summary of all of the changes that you have made throughout the wizard. You should set up every camera that you have connected to your DVR one by one and disable the inputs that have nothing connected to them. The camera setup wizard only has to be run the first time that you install SecurView Pro to setup all of your inputs or afterwards to make changes to camera names and/or motion detection, recording, etc, properties.
21. Click **Finish**.

Configure multiple cameras

1. To select multiple IP cameras, click on mouse button while holding down the Shift key and clicking in the window and drag the pointer diagonally, providing drawing frame.


Camera Setup Wizard
Camera choice
Select one or more devices to setup
Use the list below to select one or more devices, which you would like to set up. Press Next to proceed with setup.
Title
Device Name
Add New Devices
Network Devices (IP Camera, Video Server)
Media Source
Review or Modify Existing Devices
TRENDnet 192.168.10.130 (disabled)
Media Source\003
TRENDnet 192.168.10.131
Media Source\004
Copy to Clipboard
< Back
Next >
Cancel

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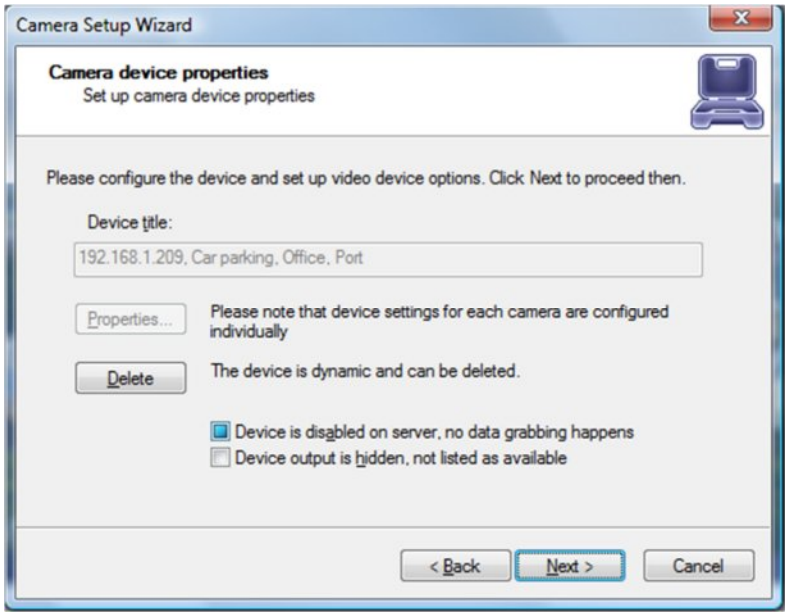
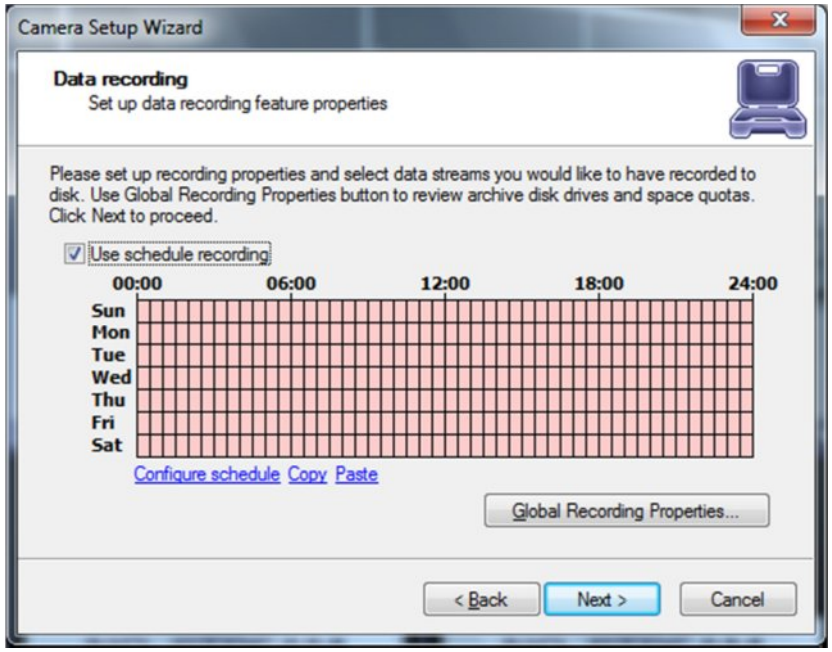
2. When you change the camera settings, you must remember that the camera may already have some of the settings.


Camera Setup Wizard
Camera device properties
Set up camera device properties
Please configure the device and set up video device options. Click Next to proceed then.
Device title:
192.168.1.209, Car parking, Office, Port
Properties...
Please note that device settings for each camera are configured individually
Delete
The device is dynamic and can be deleted.
Device is disabled on server, no data grabbing happens
Device output is hidden, not listed as available
< Back
Next >
Cancel

Scheduled Recording Configuration

Scheduled recording requires device configuration administration permissions through the "Camera Setup Wizard". As soon as scheduled recording is selected, cameras will be recorded in accordance with the schedule.



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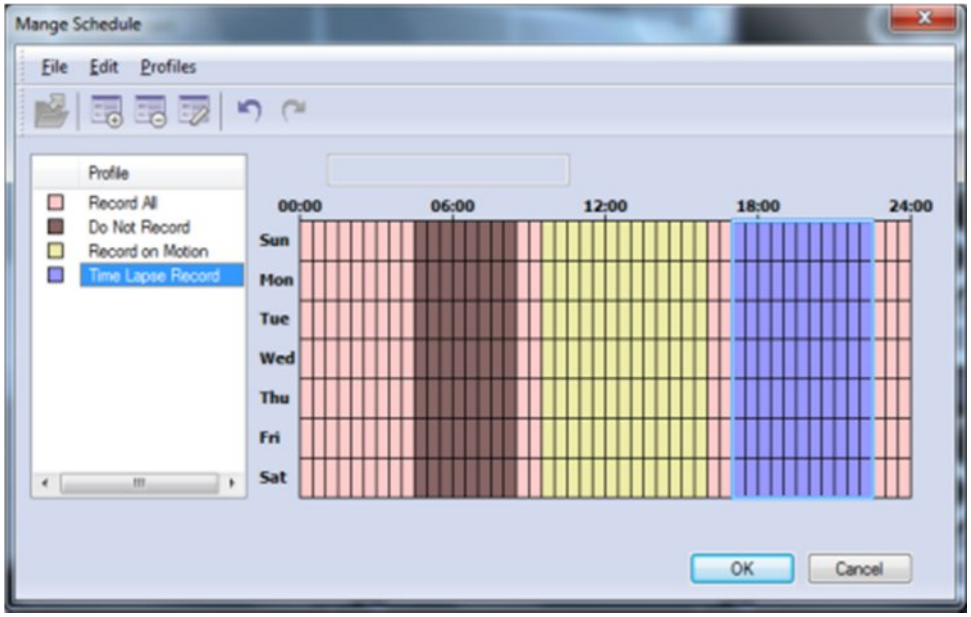
Click on **Configure schedule** to bring up the "Manage Schedule" window.

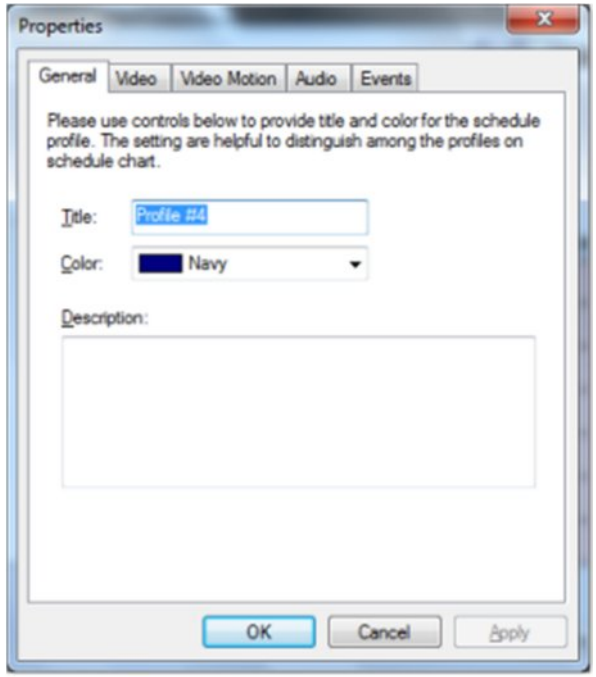


You can create, edit and delete profiles of the schedule by clicking on the top toolbar. By Selecting a profile from the list and "drawing" on the schedule you can specify the time for the selected profile.

Profile Configuration

Profiles > Create New Profile

- **General tab** -Specify settings that affect only the appearance of the profile in the settings of the schedule.



- **Video tab** - Allows managing of the video recording settings.
  - **Enable video recording** - enable/disable video recording.
  - **Enable motion / alert controlled recording** - enable/disable the recording of the movement, or events.
  - **Record frames in absence of motion or alert event -** this option works differently.
  - **Record of Motion / off events:** includes compression record by limiting the frame rate.
  - **Recording by motion/events enabled** - enable recording when there is no movement/events. You can also set the number of frames per second.
  - **Constrain recording** - enable/disable the compression record by limiting the frame rate.

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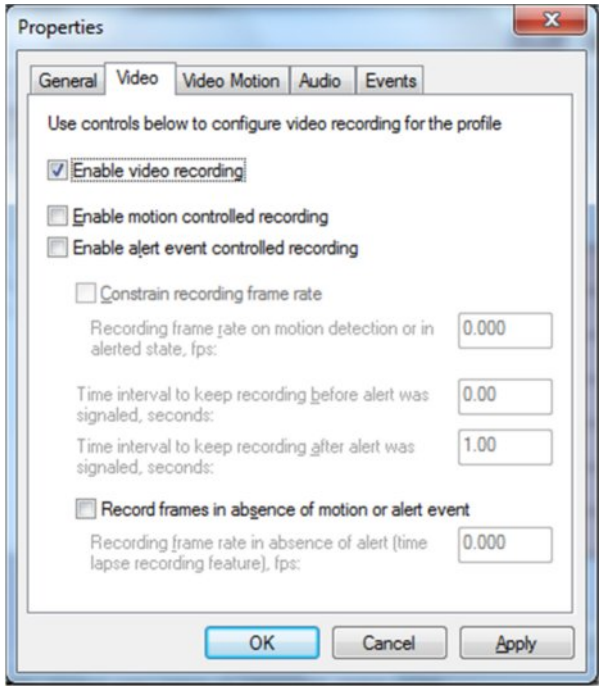
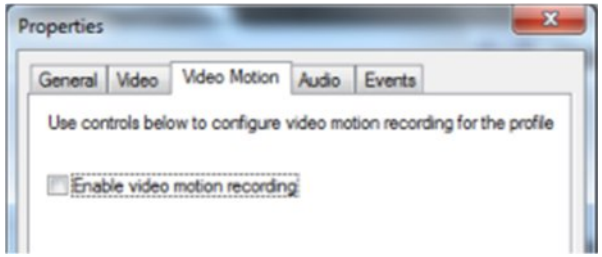
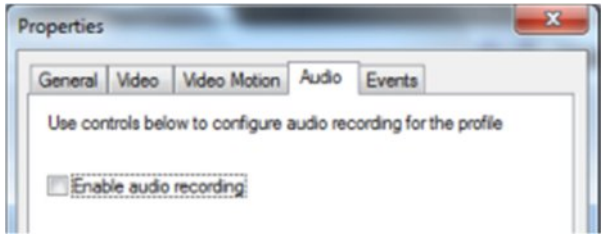
- **Time interval to keep recording before / after alert was signaled** - the recording time before and after the motion or event.


Properties
General
Video
Video Motion
Audio
Events
Use controls below to configure video recording for the profile
Enable video recording
Enable motion controlled recording
Enable alert event controlled recording
Constrain recording frame rate
Recording frame rate on motion detection or in alerted state, fps:
0.000
Time interval to keep recording before alert was signaled, seconds:
0.00
Time interval to keep recording after alert was signaled, seconds:
1.00
Record frames in absence of motion or alert event
Recording frame rate in absence of alert (time lapse recording feature), fps:
0.000
OK
Cancel
Apply

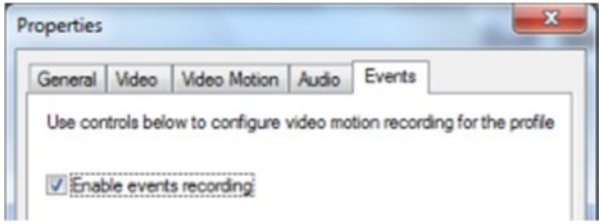
- **Video Motion Tab –** Enable video motion recording.



- **Audio Tab** - Enable audio recording – enable/disable audio recording.



- **Events Tab** - Enable events recording – enable/disable e recording.



Digital Input Configurations and Events

To activate the dry contacts (digital or dry inputs) on the camera you need run Camera Setup Wizard, open the camera settings and select the tab Events. Next, you need to include the generation of events (Enable event generation), also select the State in which the alert generated by the event - this can be done by clicking the mouse on the link in the column State. After changing the settings you have to continue the Camera Setup Wizard to finish.

Available State:.

- **Active -** by changing the status of the contact, it is recorded in the archive;
- **Alert if Change -** Same as Active, but by changing the state of contact is generated alert;
- **Alert if Open -** the same as Active, but when closing the contact generated alert;
- **Alert if Close -** same as Active, but the closure of the contact is generated alert.

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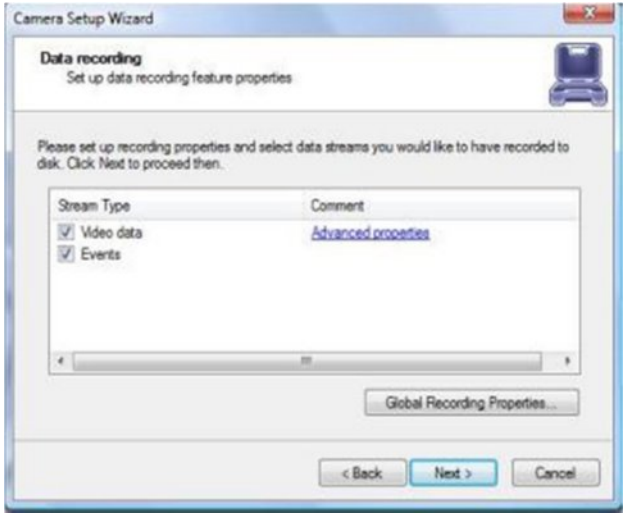
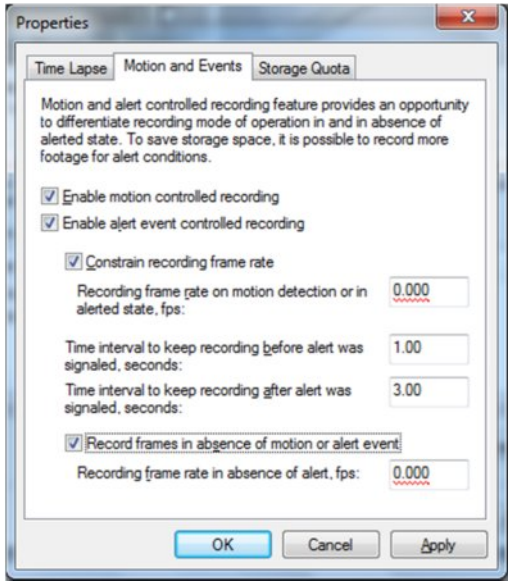
Recording

For the recording of events, select the corresponding check-box on the page, Data recording, in the Camera Setup Wizard.


Camera Setup Wizard
Data recording
Set up data recording feature properties
Please set up recording properties and select data streams you would like to have recorded to disk. Click Next to proceed then.
Stream Type
Comment
Video data
Advanced properties
Events
Global Recording Properties...
< Back
Next >
Cancel

You can also set up to activate record video after an alarm event. To do this, click **Advanced Properties**, select the "Motion and Events tab", and select "Enable alert event controlled recording."


Properties
Time Lapse
Motion and Events
Storage Quota
Motion and alert controlled recording feature provides an opportunity to differentiate recording mode of operation in and in absence of alerted state. To save storage space, it is possible to record more footage for alert conditions.
Enable motion controlled recording
Enable alert event controlled recording
Constrain recording frame rate
Recording frame rate on motion detection or in alerted state, fps:
0.000
Time interval to keep recording before alert was signaled, seconds:
1.00
Time interval to keep recording after alert was signaled, seconds:
3.00
Record frames in absence of motion or alert event
Recording frame rate in absence of alert, fps:
0.000
OK
Cancel
Apply

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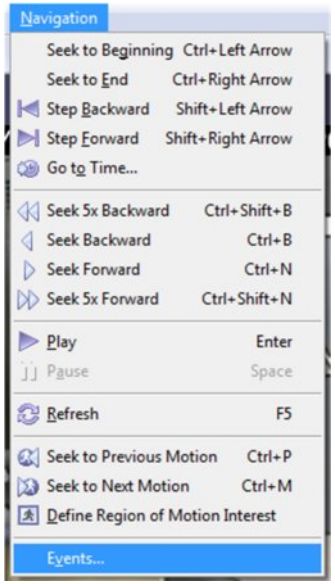
Archive

1. Click **Archive** in the structure pane on the left.
2. Click **Video**.
3. Double click the desired camera.

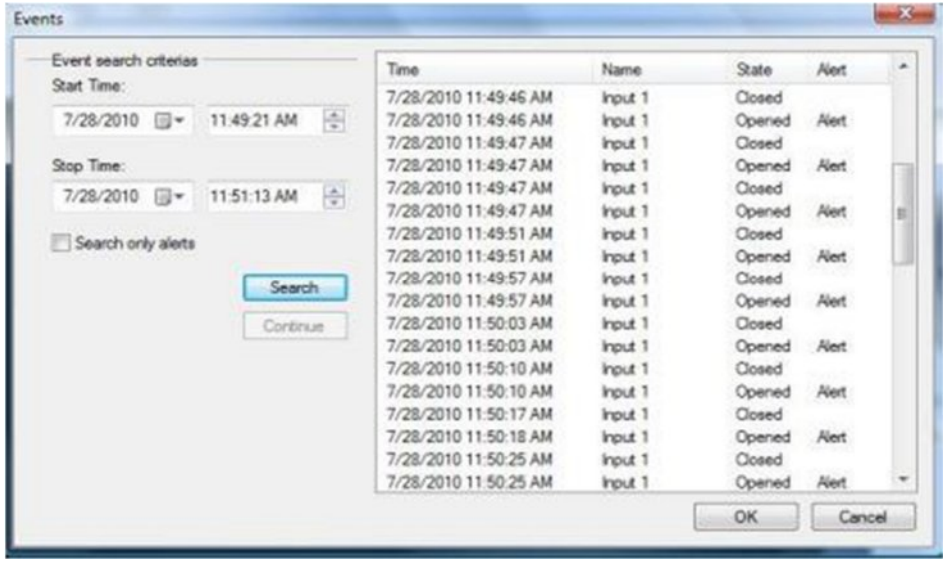
At the Time Line bar, events are displayed in the lower part, and are marked with yellow or red (alarm events) Labeled.

Search for Events

To search for events, choose **Navigation** -> **Events** in the archive window..



Specify search criteria and click **Search**. Double click on the event of interest to establish the position of the archive at the time of the event


Events
Event search criterias
Start Time:
7/28/2010
11:49:21 AM
Stop Time:
7/28/2010
11:51:13 AM
Search only alerts
Search
Continue
Time Name State Alert
7/28/2010 11:49:46 AM Input 1 Closed
7/28/2010 11:49:46 AM Input 1 Opened Alert
7/28/2010 11:49:47 AM Input 1 Closed
7/28/2010 11:49:47 AM Input 1 Opened Alert
7/28/2010 11:49:47 AM Input 1 Closed
7/28/2010 11:49:47 AM Input 1 Opened Alert
7/28/2010 11:49:51 AM Input 1 Closed
7/28/2010 11:49:51 AM Input 1 Opened Alert
7/28/2010 11:49:57 AM Input 1 Closed
7/28/2010 11:49:57 AM Input 1 Opened Alert
7/28/2010 11:50:03 AM Input 1 Closed
7/28/2010 11:50:03 AM Input 1 Opened Alert
7/28/2010 11:50:10 AM Input 1 Closed
7/28/2010 11:50:10 AM Input 1 Opened Alert
7/28/2010 11:50:17 AM Input 1 Closed
7/28/2010 11:50:18 AM Input 1 Opened Alert
7/28/2010 11:50:25 AM Input 1 Closed
7/28/2010 11:50:25 AM Input 1 Opened Alert
OK
Cancel

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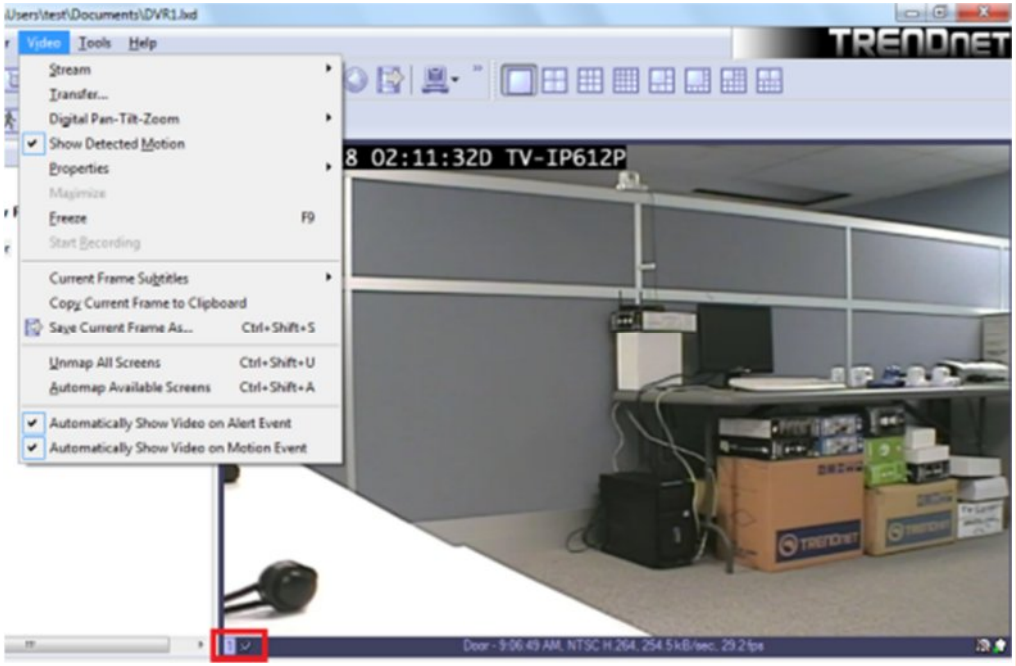
Live view pop up by motion and events

1. Cameras will be placed on a client screen as soon as Motion/Event triggered on the camera

2. Each camera has the option in a footer "lock" and "unlock".

When a camera is unlocked it will be changed on the screen if you have enabled Pop up features. If a camera is locked then it will always stay on the screen.



3. On an event, camera placed on the screen by pop up will be marked in red blinking frame.

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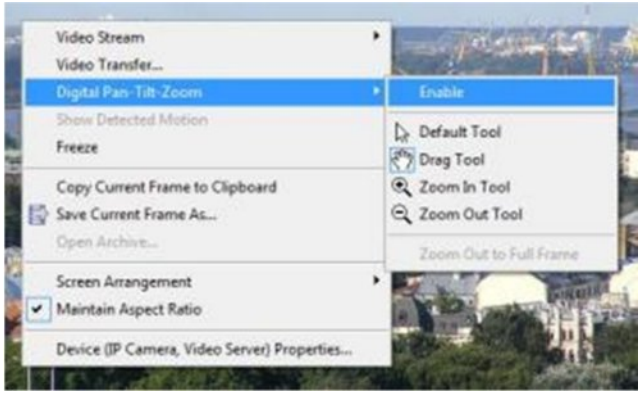
Chapter 5

Digital PAN-TILT-ZOOM on live view

1. Right-Click on any camera to activate the Digital Pan-Tilt and Zoom function.



2. Then by activating the PTZ control pane live streaming video can be digitally enhance.

Digital PAN-Tilt-Zoom Tools

.

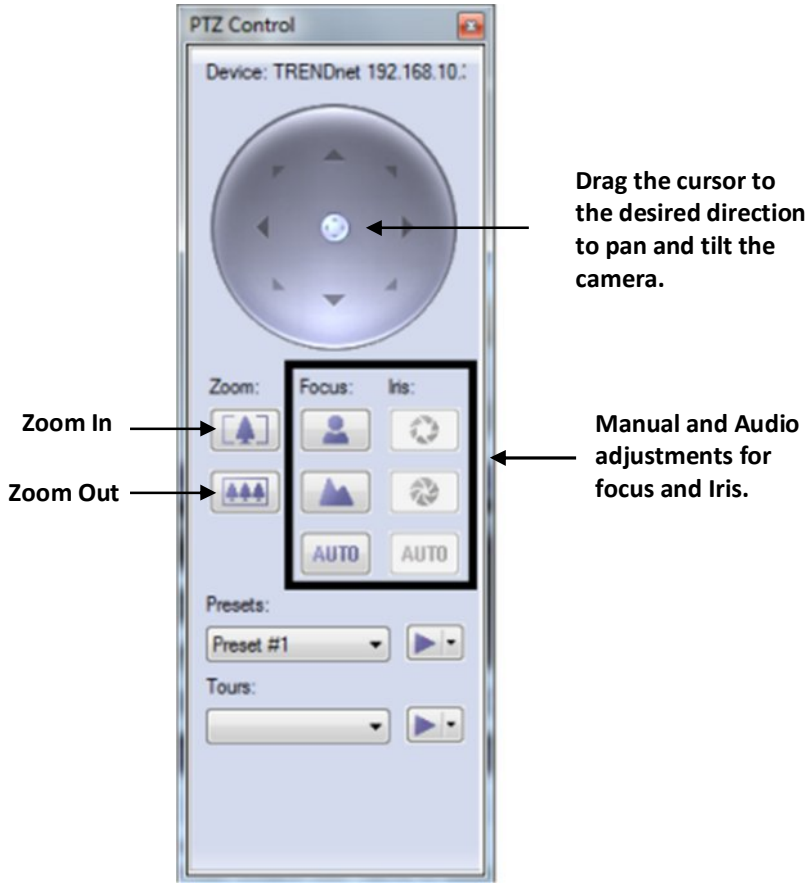
- Default Tool – It will click and drag as if no digital PTZ was enabled. Digital PTZ control still be accessible via PTZ control pane
- Drag Tool – when selected mouse can drag digitally zoomed image around screen changing your viewpoint. Additionally mouse wheel will works as zoom in/zoom out.
- Zoom In(Out) Tool – digital zoom out (in) on mouse left button click.
- Zoom Out to Full Frame – zoom level automatically reverts to 0, image will fit on screen completely.

Digital PAN-Tilt-Zoom on Playback

To Activate the Digital Pan-Tilt and zoom function on already recorded video just activating the PTZ control pane from the archive window. It can be controlled only via PTZ control pane.

PTZ Control Panel for optical zoom

Click on this icon on the main toollbar to get to the PTZ control panel.



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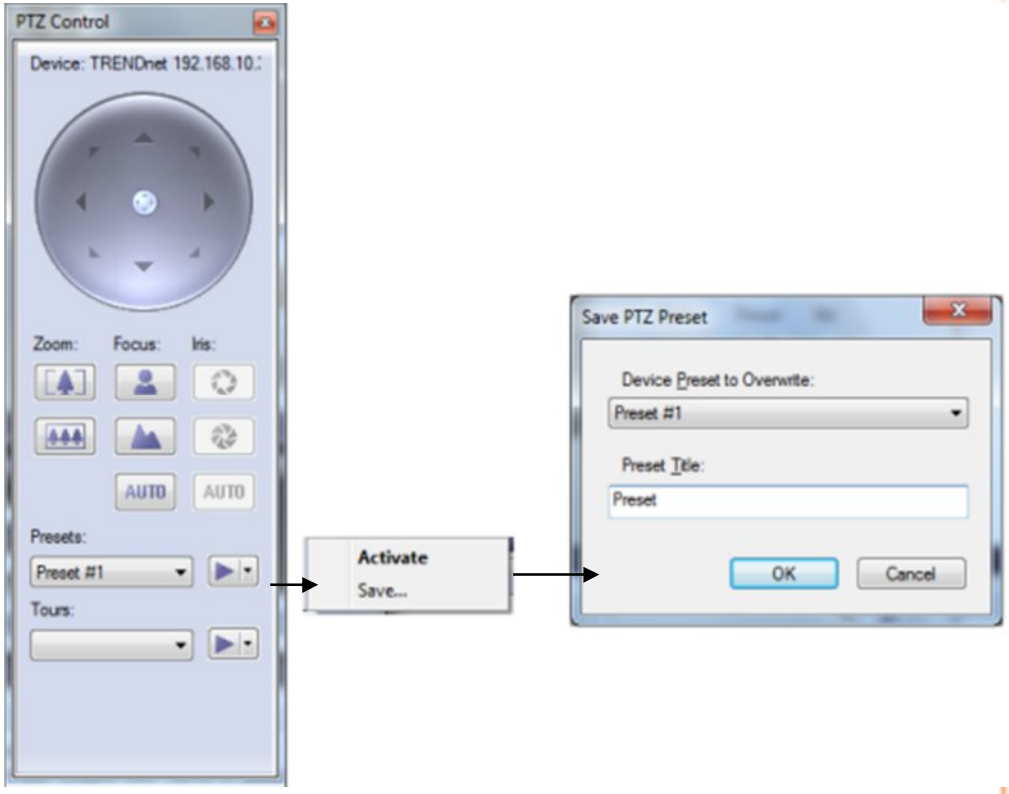
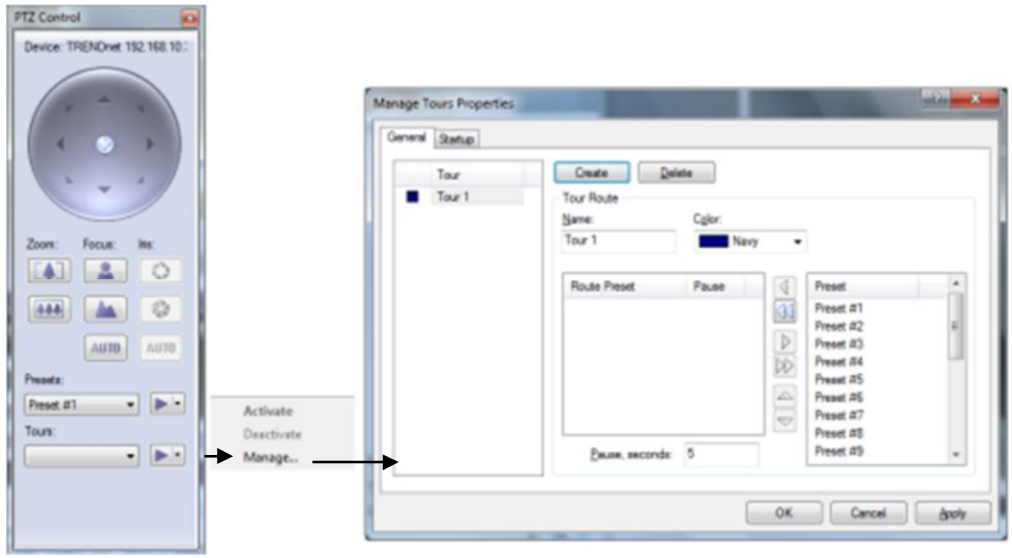
Save Presets and Tours for PTZ Cameras

Presets and Tours can be configured from the PTZ control window.



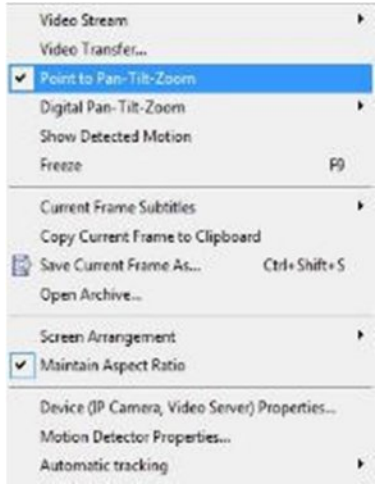
Manage PTZ tours camera by camera by selecting the presets of your choice and time between them.



PTZ control – Point to click PTZ

Point to click works on PTZ cameras that support point to click.

To enable point to click, right-click the live video stream and click **Point to Pan-Tilt-Zoom**.



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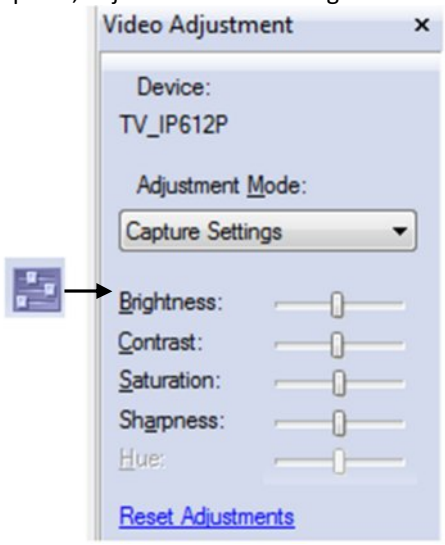
PTZ control – Shortcut Keys

PTZ cameras can be controlled with the +- and arrow keys form pc keyboard.

Video Adjustments

Video adjustment panel, adjust the video settings for the desired IP camera.



Audio Adjustments

From the Audio Panel, enable live audio from the IP camera of your choice

Video Frame Export

Video Frame Export Setup Wizard allows you to configure continuous saving of video frames on network, fixed storage or FTP. Frame export can be configured for multiple devices. Also you can use fps limit (time lapse) and motion controlled export. Exported frames will be saved in JPEG format using file name format you specify when configure export until disabled.

1. Right click on the server in structure pane or click **Server->Selected Server** in the menu bar.

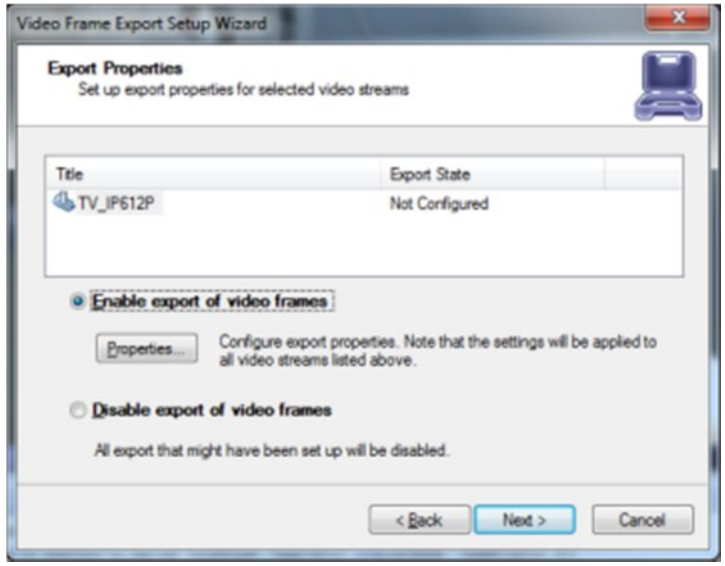
2. Choose **Tasks**

3. Click on **Video Frame Export Setup Wizard**

4. The "Video Frame Export Setup Wizard" window appears. Click **Next**.

5. The "Video Streams" window appears. Select one or more devices from the list for frame export configuration. Then click **Next**.

6. The "Export properties" window appears. You can enable or disable video frame export in this screen.


Video Frame Export Setup Wizard
Export Properties
Set up export properties for selected video streams
Title
Export State
TV_IP612P
Not Configured
Enable export of video frames
Properties...
Configure export properties. Note that the settings will be applied to all video streams listed above.
Disable export of video frames
All export that might have been set up will be disabled.
< Back
Next >
Cancel

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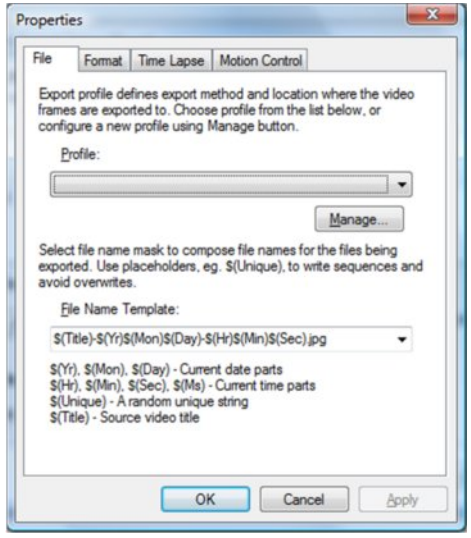
If you want to enable export, press properties button to configure it. Review the settings:

- **Profile**: Select already created profile or create at least one to start using video frame export. There are two types of profiles: file export profile and FTP export profile. Use manage button to create edit or delete those profiles
- **File Name Template**: Each frame will be saved into file, this template string will be used for formatting filename. Please make sure that it will be unique by adding it's time in milliseconds (ms) or random unique string ($(Ms) or $(Unique) format tags

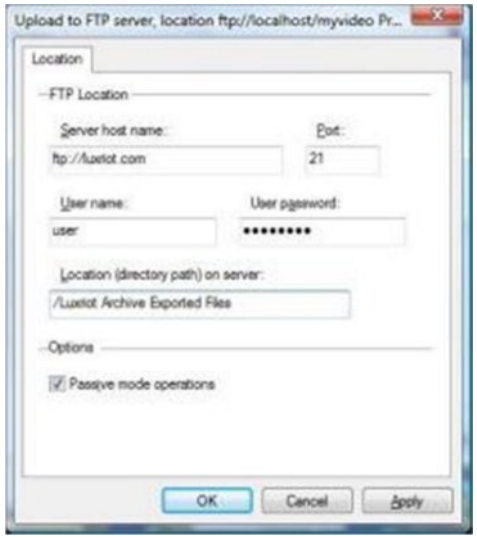
7. Click **Manage**.


Properties
File
Format
Time Lapse
Motion Control
Export profile defines export method and location where the video frames are exported to. Choose profile from the list below, or configure a new profile using Manage button.
Profile:
Manage...
Select file name mask to compose file names for the files being exported. Use placeholders, eg. $(Unique), to write sequences and avoid overwrites.
File Name Template:
$(Title)-$(Yr)(Mon)(Day)-(Hr)(Min)$(Sec).jpg
$(Yr), $(Mon), $(Day) - Current date parts
$(Hr), $(Min), $(Sec), $(Ms) - Current time parts
$(Unique) - A random unique string
$(Title) - Source video title
OK
Cancel
Apply

8. The "Profiles" window appears. Review the settings:

- **Profiles**: Edit or delete already created profiles in this list by pressing corresponding buttons.
- **Create**: Use Create button to choose where do you want to export video frames (File Export Profile or FTP Server Export Profile)

- **FTP Server Export Profile**
  Fill the fields below with FTP access data to allow SecurView Pro to connect and save frames there. Then click **Apply**.



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- **File Export Profile**
  Directory: Specify frame export directory. If you are connected remotely please note that this is server side directory. You can specify network storage or share path. Then click **Apply**.

Write to file, directory C:\LuxRiot\Exported Video Frames ...
Directory
Specify a directory to write video frame files to.
Please note that a server side directory is required, please take care if you are connected remotely.
Directory:
Browse...
OK
Cancel
Apply

.

Exclusivity Mode (Windows lock out feature)

Tools > Options > Exclusivity

Exclusivity Mode feature ensures that the operator cannot get access to Windows operating system. The operator can have access to SecurView Pro software only. This is to ensure uninterrupted server operation and stability eliminating the human error.

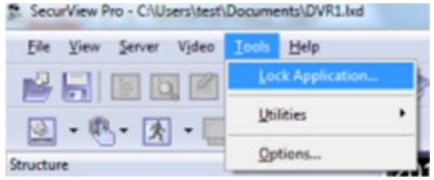
Exclusivity is a password protected function.

1. Enter desired **Password**
2. Under "Mode", check "Enable exclusive mode".
3. Click **Apply**.
4. Uncheck "Enable exclusive mode" to disable Exclusivity mode.

Lock Application

Tools > Lock Application

SecurView Pro Client can be locked to ensure that no one could damage server settings while administrator is away. Exclusivity mode password will be used to unlock application. You can combine Exclusivity Mode and Lock Application features in order to exclusively control SecurView Pro Client application and restrict access to other applications.



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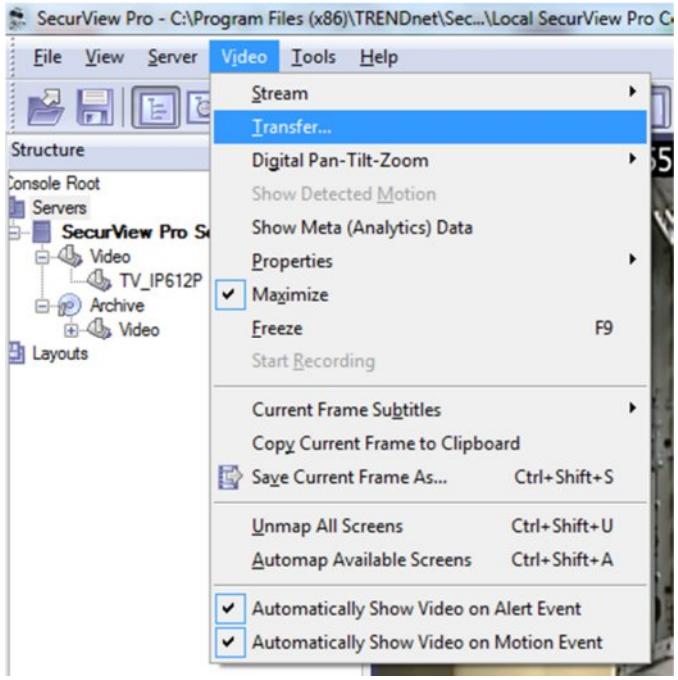
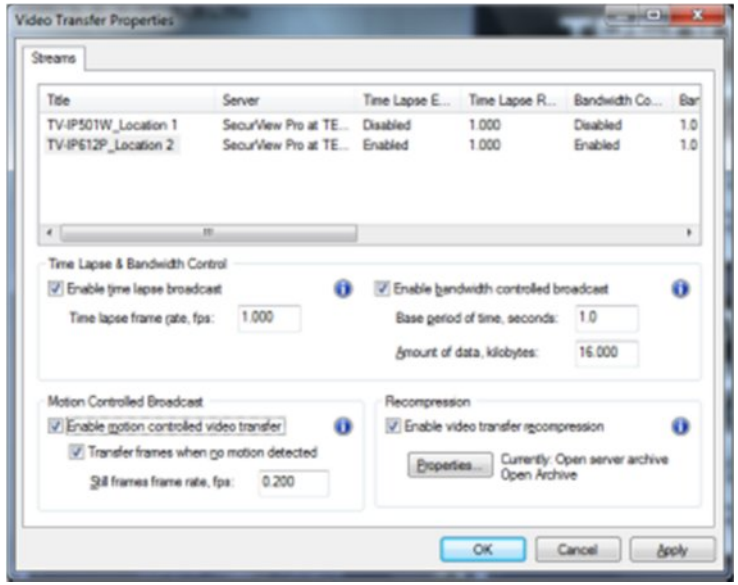
Enable Video Transfer Properties

Video Transfer feature is made for network traffic reduction between DVR Server and DVR Client (if remotely connected) and/or CPU load decreasing on the Client side. Video Transfer reduces amounts of data transferred from server to client by skipping some frames, transferring only motion detected frames, re-compressing or downsampling them without reducing recorded data quantity and quality. This feature is useful in slow remote connection or highly loaded network when viewing cameras remotely. Also it will be effective to decrease image resolution or transfer fps on the low-end systems, where DVR Client is used for viewing large amount of cameras. This approach reduces resolution and amount of frames, waiting to be rendered on the screens.



Review the settings:

1. **Time Lapse & Bandwidth Control:**
   - **Enable time lapse broadcast**: Enable time lapse broadcast on your remote connection only if needed.
   - **Enable bandwidth controlled broadcast**: Adjust data controlled broadcast if needed.
2. **Motion Controlled Broad Cast**
   - **Enable motion controlled video transfer**: Enable this feature remotely if want to see video on motion only. This is very helpful because frame rate is distributed to the cameras that have motion only.
3. **Recompression**
   - **Enable Video transfer recompression**: This feature can be very useful for remote connections only. The SecurView Pro server can record up 3 megapixel images, but remotely using this feature a user can receive more frame rate with less image quality without changing the server properties



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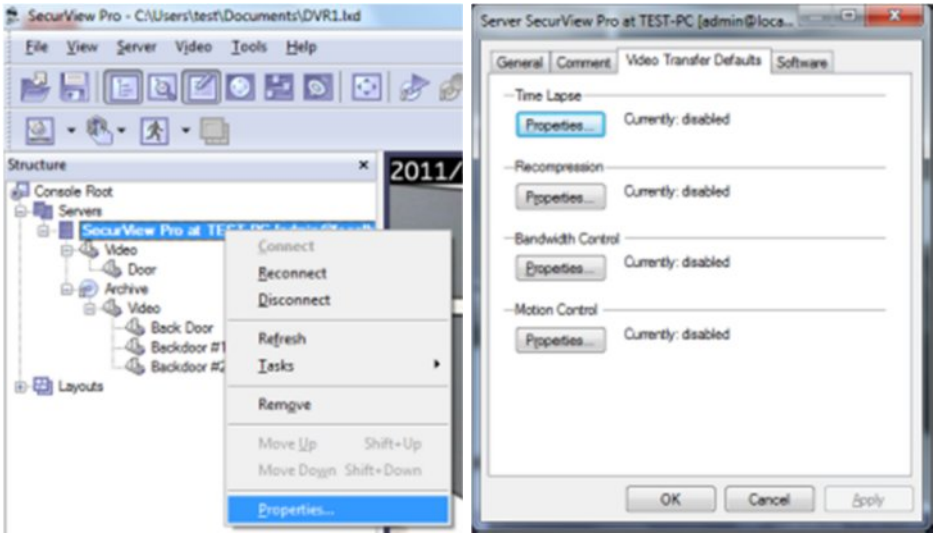
Video Transfer Defaults

You can specify default values of the video transfer for newly added devices. All options are identical to the Video Transfer properties. Those defaults can be accessed by clicking on server and choosing menu item Properties.



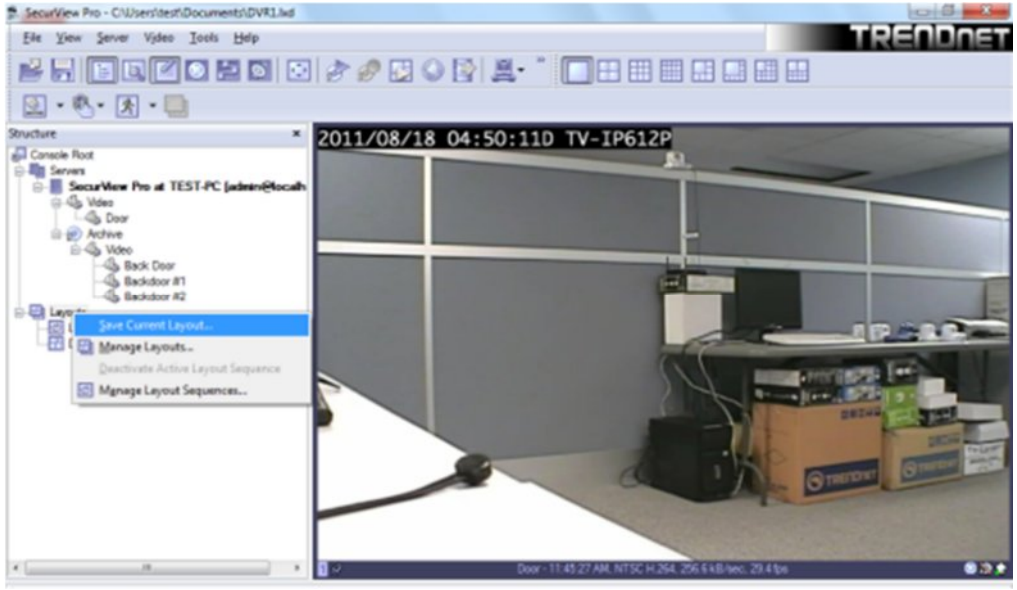
Layouts

Create custom Layouts by grouping cameras from different DVR Servers/Locations into groups for more efficient monitoring, and better management. For example group together all out-door cameras from different location or all POS cameras from all registers.

Individual Layouts can be activated by double-click on them with the mouse.

Users now can perform playback and other function by Right-click on the camera of their interest.

Note: Empty screens by default are filled with available cameras. You can disable this feature by selecting Tools->Options and choosing Screen mapping tab on appeared dialog, Set Automatic mapping mode to "disabled".



Layout Sequence

When Layouts are created, they can be used for sequencing. To create sequences:

1. Right click on Layouts and click **Manage Layout Sequences**.

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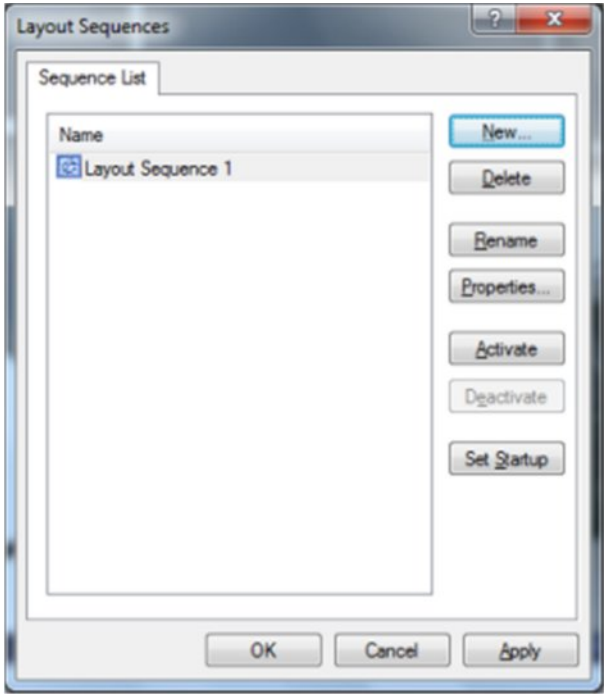
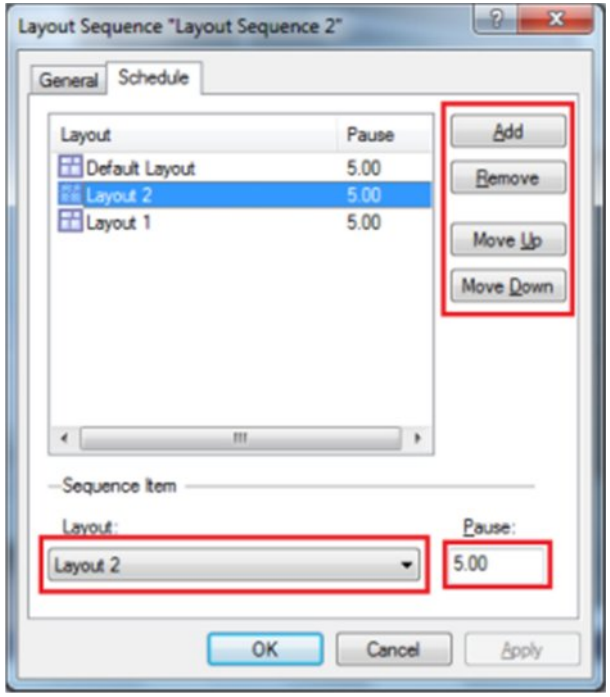
2. Click **New.**



3. Review the settings:

Add/Remove/Move Up/Move Down: Manage priority or remove layouts of your choice.

Layout: Choose given Layouts for adding them in a sequence.
Pause: Set time interval between layouts (in seconds)



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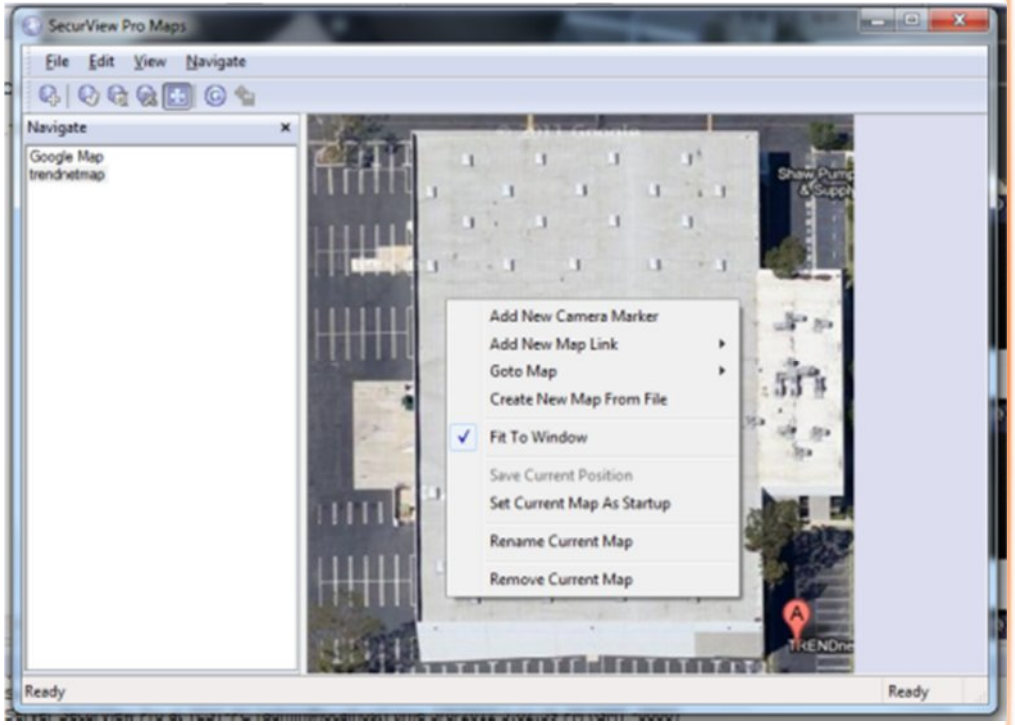
Map Module

SecurView Pro Maps allows you to quickly and conveniently locate cameras for viewing placed on Google Map and/or on your own floor plans added in JPEG format.

1. To start this module, click this button on the toolbar:

2. Right click the map and use context menu commands to configure and control map features.



3. Review the settings:

- **Add New Camera Marker** – this item will add camera marker in place where menu has been called. There will be shown list of servers and cameras after choosing this menu item. After adding new marker you can double click on marker to activate matching camera. To remove marker right click on it and choose according popup menu item.
- **Add New Map Link** – inserts on current map link on the new or already created map. Double click will change current map on the linked map. To remove this link use right click on it and choose according menu item.
- **Goto Map** – navigate to other maps in appeared list.
- **Create New Map From File** – add new map from JPEG image file, which will be used as background.
- **Fit To Window** – JPEG map will strain on window maintaining it's aspect ratio.
- **Save Current Position** – used in Google map to saving it's current position.
- **Set Current Map As Startup** – set current map as startup map. Selected map will be loaded when starting to view this map module.
- **Rename Current Map** – rename currently selected map.
- **Remove Current Map** – delete currently selected map.

Archive Backup Wizard

Archive Backup Wizard purpose is to backup specific part of archive or burn CD/DVD with archive and Archive Viewer on it. This can be useful to create backup copies of your archive with lower fps, or writing specific part of the archive on the CD for other machines without SecurView Pro being installed on them. Please note that this wizard works only on the same machine where DVR Server is installed.

1. Click the Wizards icon and select **Backup server's archive data…**

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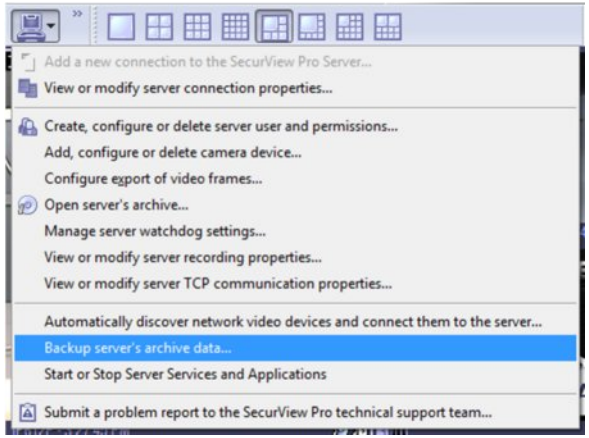
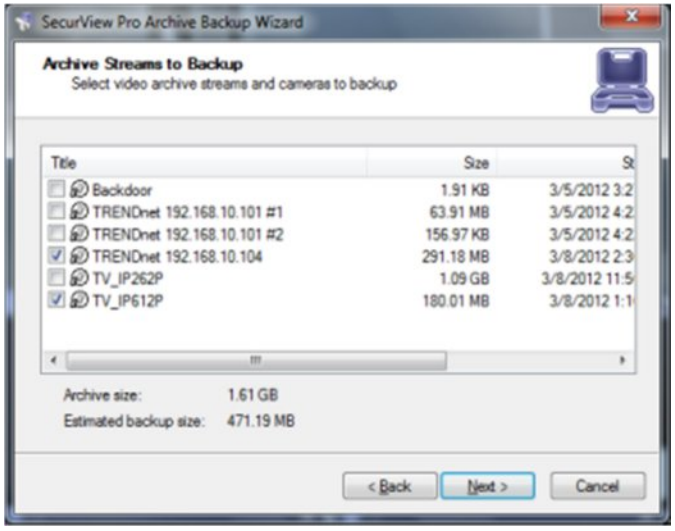
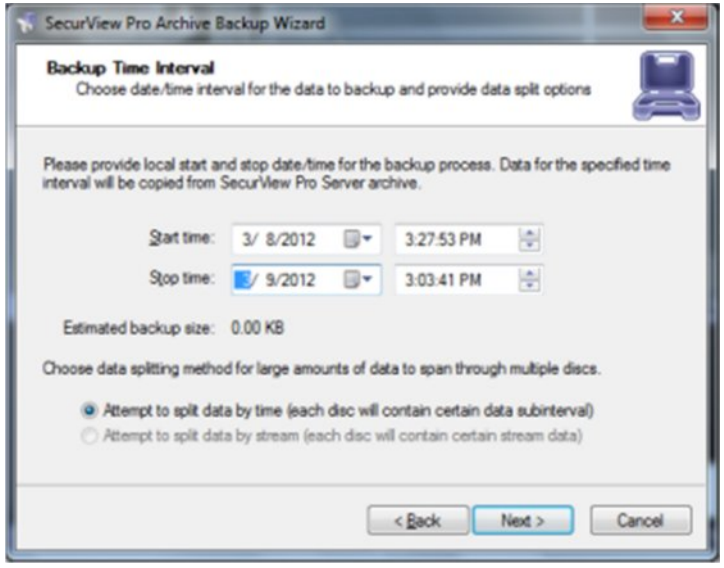

Add a new connection to the SecurView Pro Server...
View or modify server connection properties...
Create, configure or delete server user and permissions...
Add, configure or delete camera device...
Configure export of video frames...
Open server's archive...
Manage server watchdog settings...
View or modify server recording properties...
View or modify server TCP communication properties...
Automatically discover network video devices and connect them to the server...
Backup server's archive data...
Start or Stop Server Services and Applications
Submit a problem report to the SecurView Pro technical support team...

2. The "SecurView Pro Archive Backup Wizard" window appears. Click **Next**.

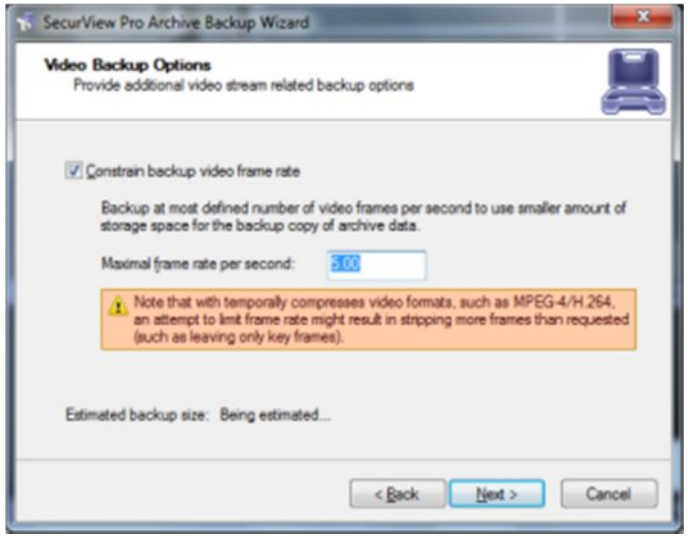
3. Select Cameras to Backup. Select one or more cameras from the list. Then click Next. Please note **Estimated Backup Size**. There are estimates of backup size on every page in this wizard. Note that you can always decrease estimate size by decreasing output fps of backup archive, deselecting some of the cameras or changing time range.



4. The time selection window appears. Select time range of backup archive. Click **Next**.


SecurView Pro Archive Backup Wizard
Backup Time Interval
Choose date/time interval for the data to backup and provide data split options
Please provide local start and stop date/time for the backup process. Data for the specified time interval will be copied from SecurView Pro Server archive.
Start time: 3/ 8/2012 3:27:53 PM
Stop time: 9/2012 3:03:41 PM
Estimated backup size: 0.00 KB
Choose data splitting method for large amounts of data to span through multiple discs.
Attempt to split data by time (each disc will contain certain data subinterval)
Attempt to split data by stream (each disc will contain certain stream data)
< Back
Next >
Cancel

5. The Video Backup Option window appear. Click **Constrain backup video frame rate** to decrease fps of backup in advanced options. Click **Next**.


SecurView Pro Archive Backup Wizard
Video Backup Options
Provide additional video stream related backup options
Constrain backup video frame rate
Backup at most defined number of video frames per second to use smaller amount of storage space for the backup copy of archive data.
Maximal frame rate per second: 5.00
Note that with temporally compressed video formats, such as MPEG-4/H.264, an attempt to limit frame rate might result in stripping more frames than requested (such as leaving only key frames).
Estimated backup size: Being estimated...
< Back
Next >
Cancel

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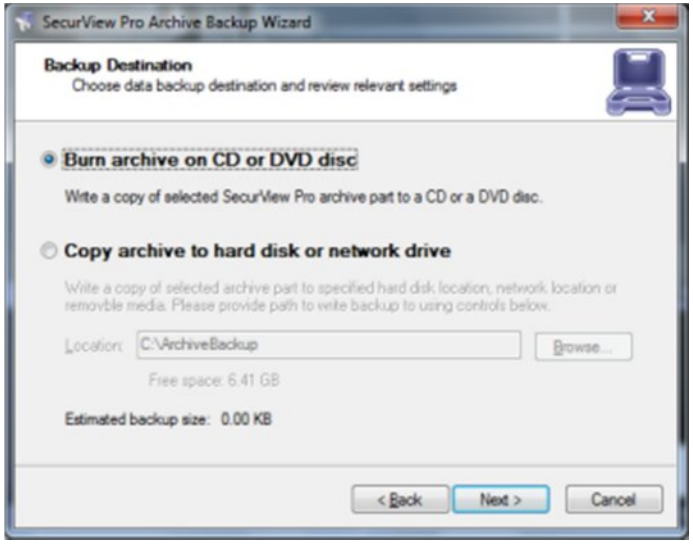
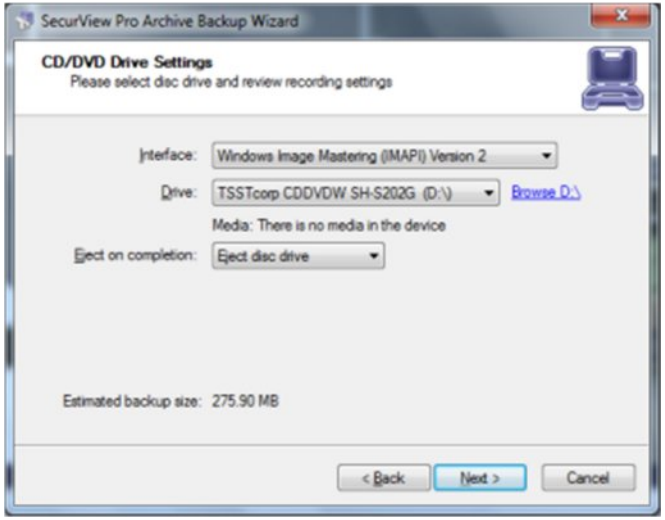
6. The "Backup Destination" window appears. Select type of backup ("Burn archive on CD or DVD disc" or "Copy archive to hard drive or network drive"). Then click **Next**.


SecurView Pro Archive Backup Wizard
Backup Destination
Choose data backup destination and review relevant settings
Burn archive on CD or DVD disc
Write a copy of selected SecurView Pro archive part to a CD or a DVD disc.
Copy archive to hard disk or network drive
Write a copy of selected archive part to specified hard disk location, network location or removable media. Please provide path to write backup to using controls below.
Location: C:\ArchiveBackup
Browse...
Free space: 6.41 GB
Estimated backup size: 0.00 KB
< Back
Next >
Cancel

7. If you select "Burn archive on CD or DVD disc", the "CD/DVD Device Settings" window appears. Click **Next**.


SecurView Pro Archive Backup Wizard
CD/DVD Drive Settings
Please select disc drive and review recording settings
Interface: Windows Image Mastering (IMAPI) Version 2
Drive: TSSTcorp CDDVDW SH-S202G (D:\)
Browse D:\
Media: There is no media in the device
Eject on completion: Eject disc drive
Estimated backup size: 275.90 MB
< Back
Next >
Cancel

8. On the next window you will see progress of backup action. After backup is complete, click **Finish**

.

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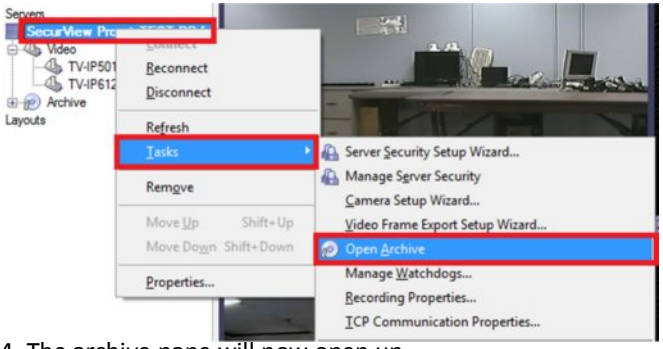
Chapter 6

How to playback video

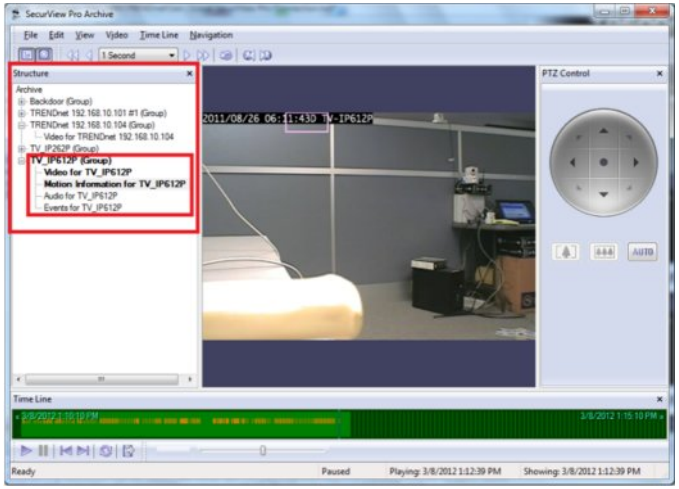
1. Right click on your server name
2. Choose **tasks**
3. Click **Open archive.**

Note: You can also right click on any camera view and choose open archive.

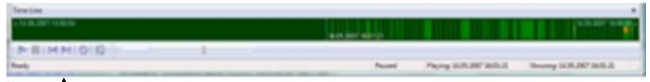


4. The archive pane will now open up.

- **Playback Window Structure** - Now that you are in the playback screen, the structure pane on the left lists all of the cameras that you have recordings for .
- **To Navigate through the Video** - Double click on the camera you wish to playback (This camera will now appear with footage on the video screen).



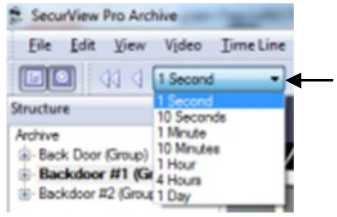
The solid green line on the bottom represents time. The light green lines represent recorded video. The orange lines represent motion information.



There are basic VCR controls on the bottom of the playback screen, which you can use to play, pause, forward, and rewind.

Fast forward & Rewind

There is a dial on the bottom of the screen, which you can drag in either direction to browse through your video in high speeds. Another way to fast forward is to use the arrow controls on top of the screen in which you can define how many increments of time you would like to move through the video.



Playback Motion Only

Located at the top of your Archive Pane, there are two buttons that allow you to seek video with actual motion in return saving you time.

With the camera you wish to review selected and showing in your video screen

Choose either

"seek previous motion"

or

"seek next motion"

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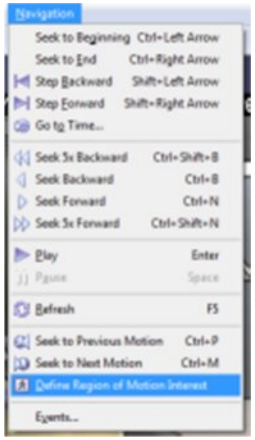
Smart Search

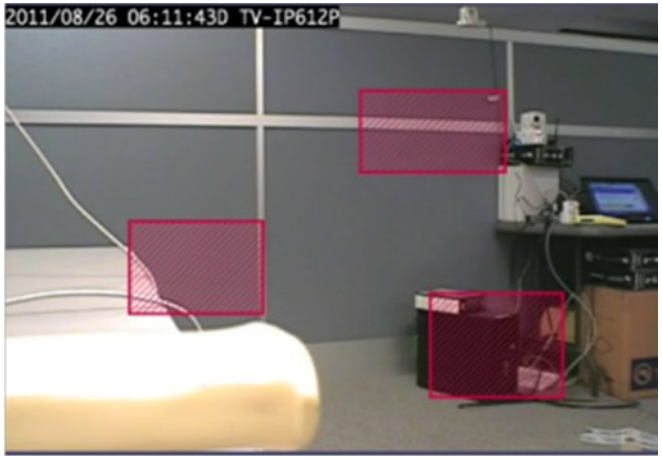
You can also search through video not only by motion in the screen, but also by motion in a specific part of your camera screen. Through SecurView Pro's playback screen, you can define a specific object in your view, or define a path, and seek through motion only in that specific region. This process is very commonly referred to as "smart search".

Define motion of interest

1. Click on **Navigation** at the top of the archive window.
2. Click on "Define region of motion interest".



3. Press the left button and drag the mouse over the area you would like to see motion in. This will create a grid in that area. You can also select multiple regions.

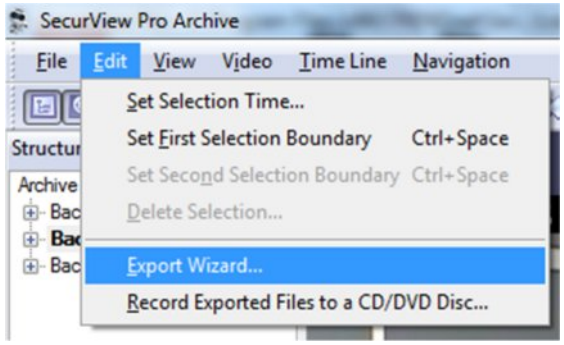


4. Click on "seek to previous motion" or "seek to next motion" to search through motion in the defined area or areas.

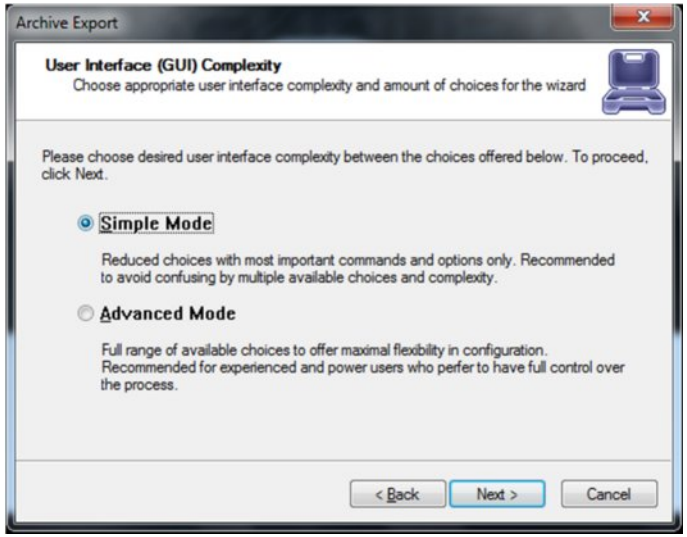
Export Video

To export video, you first have to select the section of recordings that you want to export to a different location (This will also prevent it from getting overwritten). To select video:

1. Click on **Edit** at the top of the playback screen.
2. Click on **Export Wizard**.



3. Select **Simple Mode** or **Advanced Mode** and then click **Next**.


Archive Export
User Interface (GUI) Complexity
Choose appropriate user interface complexity and amount of choices for the wizard
Please choose desired user interface complexity between the choices offered below. To proceed, click Next.
Simple Mode
Reduced choices with most important commands and options only. Recommended to avoid confusing by multiple available choices and complexity.
Advanced Mode
Full range of available choices to offer maximal flexibility in configuration. Recommended for experienced and power users who perfer to have full control over the process.
< Back
Next >
Cancel

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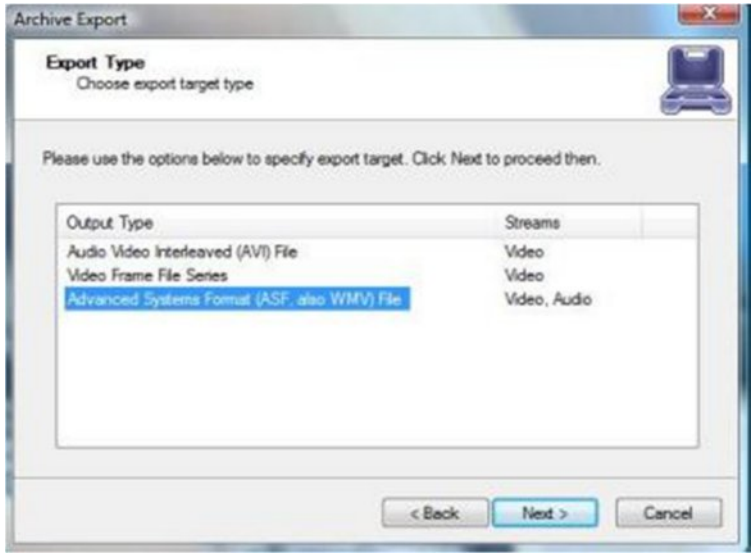
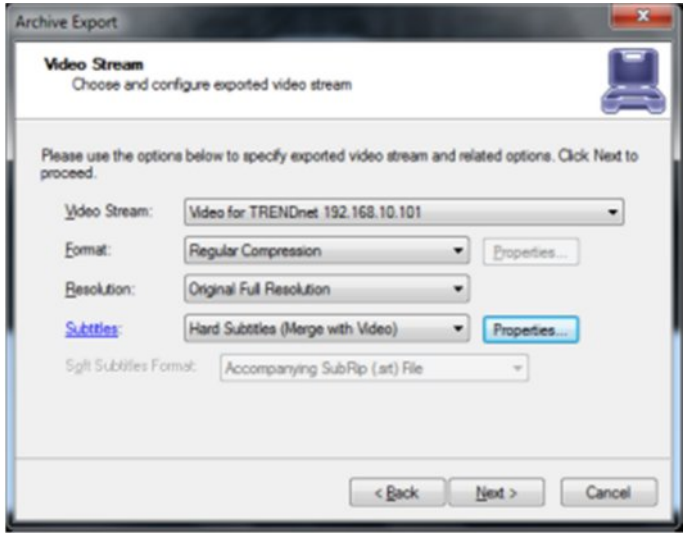
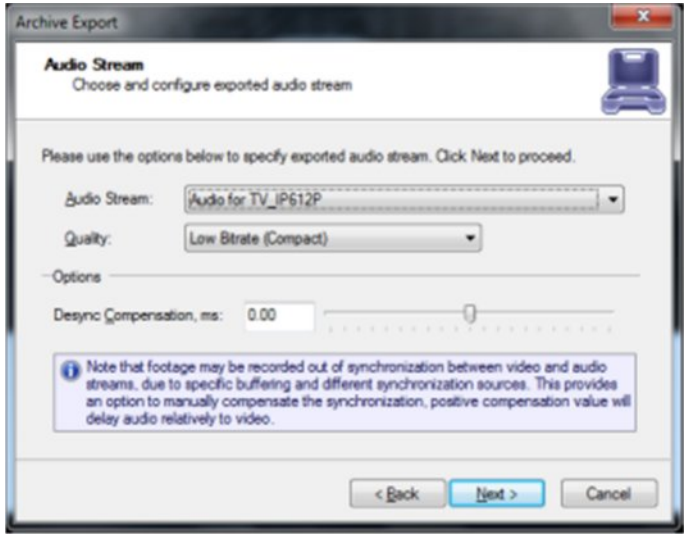
3. The **Export Type** window appears. Click **Next**. Note: Video + Audio export available only for ASF and WMV formats.



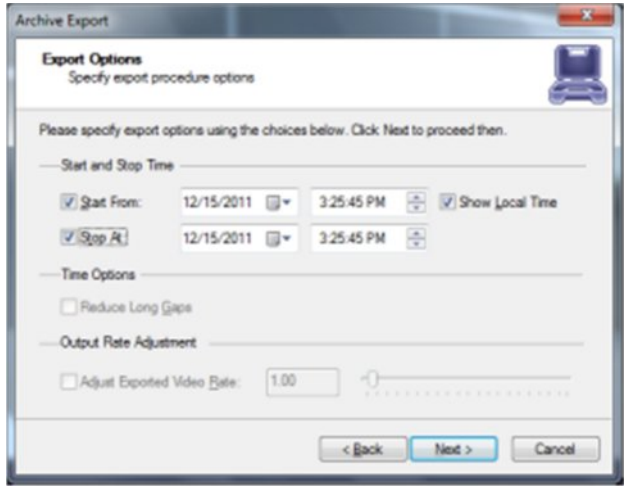
4. The "Video Stream" window appears. Choose the desired camera (video stream), compression (format) and subtitles. Then click **Next**.



5. The "Audio Stream" window appears. Choose which Audio stream you want to export along with video. Then click **Next**.


Archive Export
Audio Stream
Choose and configure exported audio stream
Please use the options below to specify exported audio stream. Click Next to proceed.
Audio Stream:
Audio for TV_IP612P
Quality:
Low Bitrate (Compact)
Options
Desync Compensation, ms:
0.00
Note that footage may be recorded out of synchronization between video and audio streams, due to specific buffering and different synchronization sources. This provides an option to manually compensate the synchronization, positive compensation value will delay audio relatively to video.
< Back
Next >
Cancel

6. The "Export Options" window appears. Select the start and finish times of the video clip that you want to export. Click **Next**.



7. The Wizard will guide you to the next step for you do designate to which drive or folder to save the export video.

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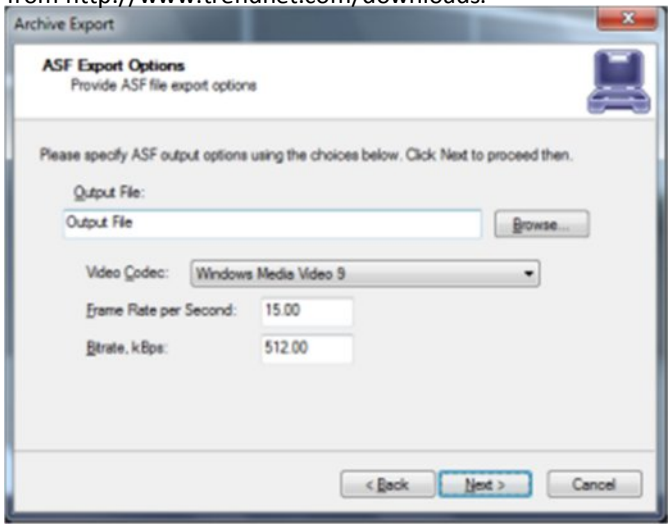
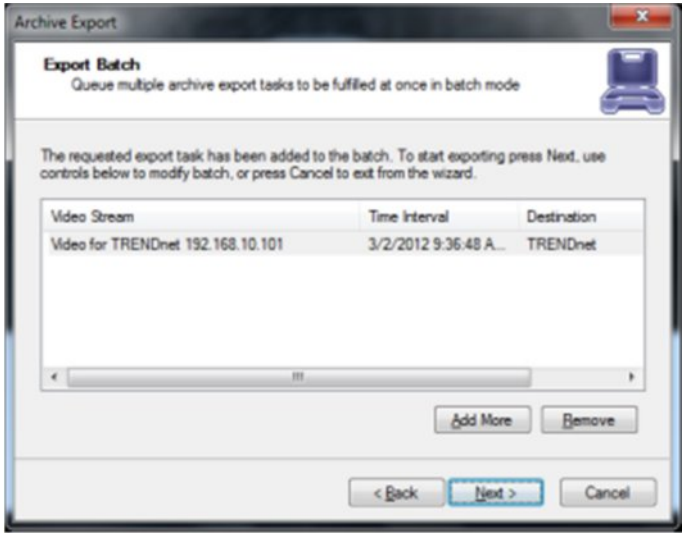
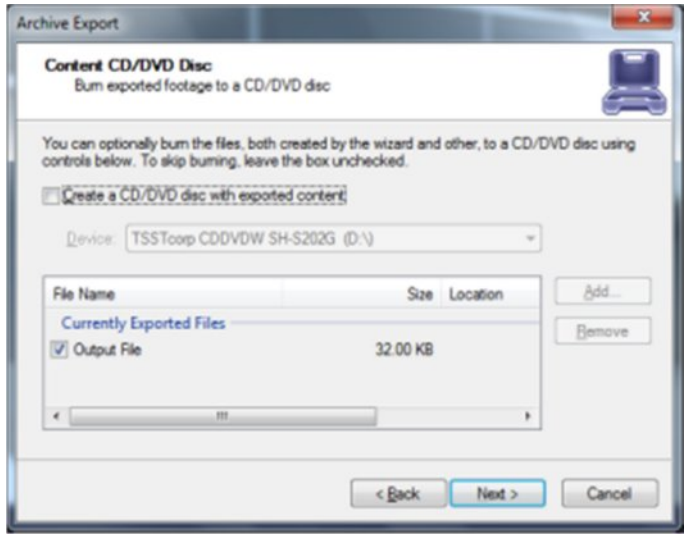
Note: To play back the SecurView Pro AVI file on a computer that doesn't have SecurView Pro installed, a codec (a small executable file) will have to be installed in order for your media player to recognize the SecurView Pro video file. The codec can be downloaded from http://www.trendnet.com/downloads.



8. The "Export Batch" window appears. Set all necessary parameters and before start export. The export Batch Window allows you add multiple export tasks.


Archive Export
Export Batch
Queue multiple archive export tasks to be fulfilled at once in batch mode
The requested export task has been added to the batch. To start exporting press Next, use controls below to modify batch, or press Cancel to exit from the wizard.
Video Stream
Time Interval
Destination
Video for TRENDnet 192.168.10.101
3/2/2012 9:36:48 A...
TRENDnet
Add More
Remove
< Back
Next >
Cancel

9. **The** "Content CD/DVD Disc" window appears. Click **Next**.

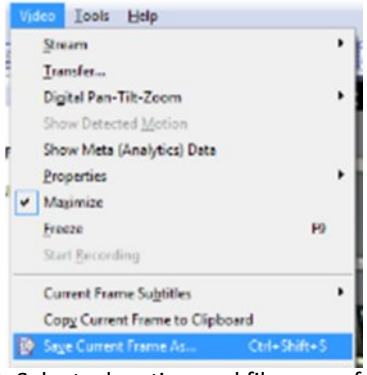

Archive Export
Content CD/DVD Disc
Burn exported footage to a CD/DVD disc
You can optionally burn the files, both created by the wizard and other, to a CD/DVD disc using controls below. To skip burning, leave the box unchecked.
Create a CD/DVD disc with exported content
Device:
TSSTcorp CDDVDW SH-S202G (D:\)
File Name
Size
Location
Currently Exported Files
Output File
32.00 KB
Add...
Remove
< Back
Next >
Cancel

10. Archive Export wizard is now complete. Click **Finish**.

Export Snapshots

Another way to export video is to save one frame at a time, like a snapshot.

1. Pause the video on the image that you would like to copy.
2. Click on **Video**.
3. Choose "Save Current Frame As…"



4. Select a location and file name for your image

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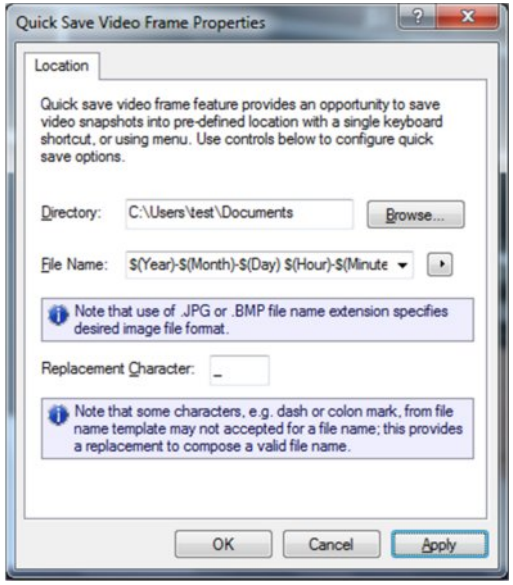
5. Click **Save**.
Now you will have the image stored so that you can print, e-mail, or enhance that snapshot.

Quick snapshot save and current visible frame save

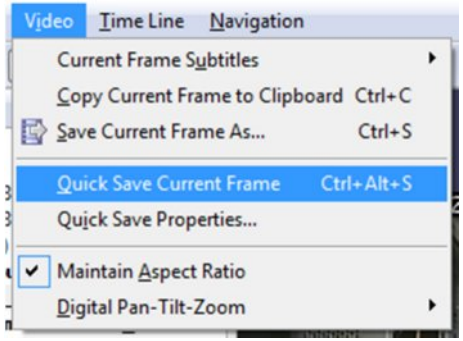
The Quick save feature provides you the option to quick save video snapshot to a pre-define location with a single keyboard shortcut.

1. Prior to using the "quick save current frame" the Quick save properties must be configured to pre-define the save location

2. Setup preferred directory for saving the snapshots.


Quick Save Video Frame Properties
Location
Quick save video frame feature provides an opportunity to save video snapshots into pre-defined location with a single keyboard shortcut, or using menu. Use controls below to configure quick save options.
Directory:
C:\Users\test\Documents
Browse...
File Name:
$(Year)-$(Month)-$(Day) $(Hour)-$(Minute
Note that use of .JPG or .BMP file name extension specifies desired image file format.
Replacement Character:
_
Note that some characters, e.g. dash or colon mark, from file name template may not accepted for a file name; this provides a replacement to compose a valid file name.
OK
Cancel
Apply

3. Press Ctrl + Alt +S on your keyboard or click **Video** and select **Quick Save Current Frame**.



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Chapter 7

Upgrading SecurView Pro software to a newer version

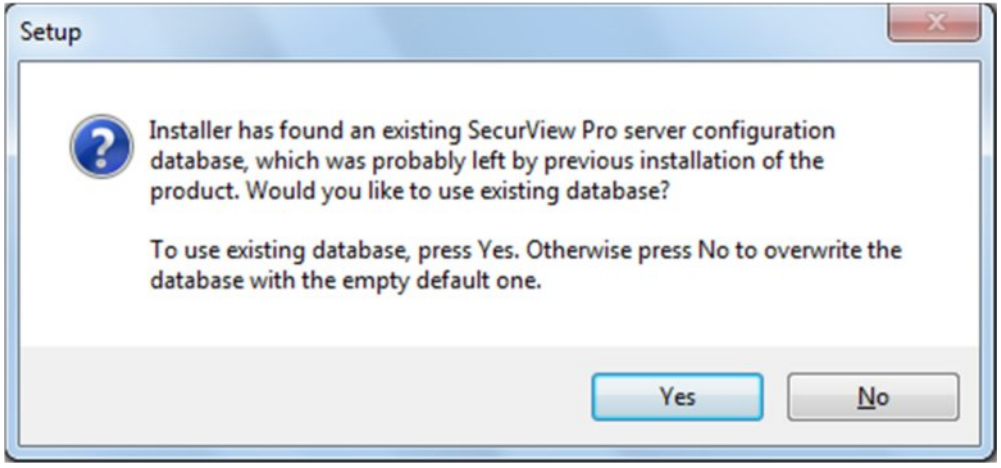
To check for upgrades and new free versions you can always visit www.trendnet.com

Updating the software requires all DVR services to stop before Installation (see page 10-13).

During the installation of the new version you will encounter the following message.

Yes: Recommended. Keep all current configurations of your server.

No: Start a new database. All previous settings and configurations will be erased and a new database will be created.


Setup
Installer has found an existing SecurView Pro server configuration database, which was probably left by previous installation of the product. Would you like to use existing database?
To use existing database, press Yes. Otherwise press No to overwrite the database with the empty default one.
Yes
No

After you complete the above steps, you can continue with the installation.

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Product Warranty Registration

Please take a moment to register your product online.
Go to TRENDnet's website at http://www.trendnet.com/register

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